MAXIFORCE®

DIESEL ENGINE PARTS

Replacement parts for the following engines:

Caterpillar® Cummins® John Deere® IH/Navistar® Perkins®
Yanmar® Mitsubishi® Shibaura® Kubota®

www.maxiforce.com

A U.S. GLOBAL COMPANY

FAMILY OWNED
SINCE 1994
MAXIFORCE
25 YEARS
AND OPERATED

JOHN DEERE 3.152 O'RINGS ON LINER

Engine Series:
300

Engine Desc:
To ESN 154,765

Engine Data:
O'rings on Liner

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.86 in / 98 mm Pin Ø: 1.1878 in / (+/- .0001)=30mm

Block (M):
T24963, T26935

Con Rod (M):
T20007, R81410

Piston (M):
T23481

Farm Tractors
820
1020
1030

Backhoe Loaders
300
300A

Crawler Dozers
350A
350B

Forklifts
380

1) **Engine O/H Kit**
- TOK3481

2) **Engine I/F Kit**
- TIK3481
- SPEC SHEET - 3.152 JOHN DEERE

Piston-Liner Kit
- TPLK481

Consists of:
- a) TT23481
- b) TAR70633
- c) TT23482
- d) TAR51902
- e) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

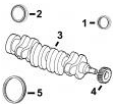
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



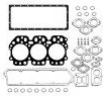
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574 [1]

3) **Crankshaft**
- TAT18031

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE38570

2) **Head Gasket Set**
- TRE38848

3) **Head Gasket**
- TR98460

4) **Oil Pan Gasket**
- TR97341

5) **Rocker Cover Gsk**
- TR75729

6) **Timing Cover Gasket**
- TT20273

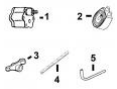
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TT23471 x3

2) **Bolt, Con Rod**
- TR74194 x6 [4]

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [3]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 [5]

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

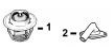
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627



1) **Thermostat**
- TRE33705 180° F [2]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

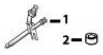
2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
-

Without Impeller
- TRE19507 [6]

With Impeller
- TRE62658 [6]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Injector, Pencil**
- TAR89564

2) **Kit, Grommet**
- TMX504

3) **Cap**
- TAT27622
- TAR85618

4) **Washer**
- TT29539

5) **Tube Nut**
- TR51937

Seal, Injector
- TR60746
- TR48000

(1): Do not use with Flywheel Housing (m) T20300, T22991.

(2): Do not use with Housing (m) R54096, R70741, R74549.

(3): Conversion Kit TMX386: Available Consists of: TT31306 X1 Nipple TR99802 X2 Hose.

(4): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(5): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(6): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3.152 O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
3.152

Engine Desc:
From ESN 154,766

Engine Data:
O'rings on Block

Engine Dimensions:
Bore: 3.86 in / 98 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Block (M):
R53240, R55100, R72967, T32339

Con Rod (M):
T20007, R81410

Piston (M):
AR87736, AR90550

Farm Tractors
820
830
1020
1030

Backhoe Loaders
300
300A
300B
301
301A

Crawler Dozers
350A
350B

Forklifts
380

1) **Engine O/H Kit**
- TOK3591

2) **Engine I/F Kit**
- TIK3591
- SPEC SHEET - 3.152 JOHN DEERE

Piston-Liner Kit
- TAR71591

Consists of:
- a) TT23481
- b) TAR70633
- c) TT23482
- d) TT32340
- e) TAR71617
- f) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

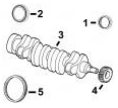
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



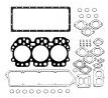
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574 [1]

3) **Crankshaft**
- TAT18031

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE38570

2) **Head Gasket Set**
- TRE38848

3) **Head Gasket**
- TR98460

4) **Oil Pan Gasket**
- TR97341

5) **Rocker Cover Gsk**
- TR75729

6) **Timing Cover Gasket**
- TT20273

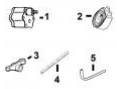
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TT23471 x3

2) **Bolt, Con Rod**
- TR74194 x6 [4]

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [3]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 [5]

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

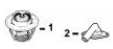
1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627



1) **Thermostat**
- TRE33705 180° F [2]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

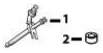
2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
-

Without Impeller
- TRE19507 [6]

With Impeller
- TRE62658 [6]

Water Pump Gasket
- TT20242
- TT20268



1) **Injector, Pencil**
- TAR89564

2) **Kit, Grommet**
- TMX504

3) **Cap**
- TAT27622
- TAR85618

4) **Washer**
- TT29539

5) **Tube Nut**
- TR51937

Seal, Injector
- TR60746
- TR48000

(1): Do not use with Flywheel Housing (m) T20300, T22991.

(2): Do not use with Housing (m) R54096, R70741, R74549.

(3): Conversion Kit TMX386: Available Consists of: TT31306 X1 Nipple TR99802 X2 Hose.

(4): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(5): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(6): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3.164 SMALL PIN, O'RINGS ON LINER

Engine Series:
300

Engine Model:
3.164

Engine Desc:
To ESN 179,601

Engine Data:
Small Pin, O'rings on Liner

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Con Rod (M):
T20007, R81410

Piston (M):
AR78310

Farm Tractors
1520

Backhoe Loaders
302
302A

1) **Engine O/H Kitt**
- TOK3310

2) **Engine I/F Kit**
- TIK3310
- SPEC SHEET - 3.164

Piston-Liner Kit
- TPLK310

Consists of:
- a) TAR78310
- b) TAR55759
- c) TT26149
- d) TAR51903
- e) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

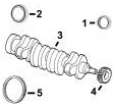
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



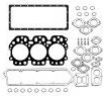
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT18031

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

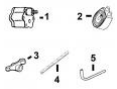
5) **Rocker Cover Gsk**
- TR75729

1) **Bush, Con Rod**
- TT23471 x3

2) **Bolt, Con Rod**
- TR74194 x6 [3]

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [2]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 [5]

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

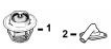
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627



1) **Thermostat**
- TRE33705 180° F [1]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

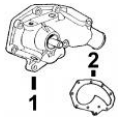
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
-

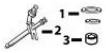
Without Impeller
- TRE19507 [6]

With Impeller
- TRE62658 [6]



1) **Water Pump**
- TAT27018 [4]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with Housing (m) R54096, R70741, R74549.

(2): Conversion Kit TMX386: Available Consists of: TT31306 x1 Nipple TR99802 x2 Hose.

(3): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(4): (m) R48997, (m) R51039.

(5): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(6): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3.164 SMALL PIN, O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
3.164

Engine Desc:
To ESN 179,601

Engine Data:
Small Pin, O'rings on Block

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Con Rod (M):
T20007, R81410

Piston (M):
AR87736, AR90550

Farm Tractors
1420
1520
1530

Crawler Dozers
350B

1) **Engine O/H Kit**
- TOK3593

2) **Engine I/F Kit**
- TIK3593
- SPEC SHEET - 3.164

Piston-Liner Kit
- TAR71593

Consists of:
- a) TAR78310
- b) TAR55759
- c) TT26149
- d) TR116463
- e) TAR71618
- f) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

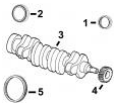
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



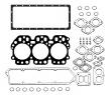
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT18031

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

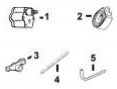
5) **Rocker Cover Gsk**
- TR75729

1) **Bush, Con Rod**
- TT23471 x3

2) **Bolt, Con Rod**
- TR74194 x6 [3]

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [2]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 [5]

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

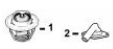
1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627



1) **Thermostat**
- TRE33705 180° F [1]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

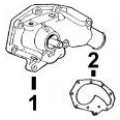
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
-

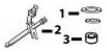
Without Impeller
- TRE19507 [6]

With Impeller
- TRE62658 [6]



1) **Water Pump**
- TAT27018 [4]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with Housing (m) R54096, R70741, R74549.

(2): Conversion Kit TMX386: Available Consists of: TT31306 X1 Nipple TR99802 X2 Hose.

(3): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(4): (m) R48997, (m) R51039.

(5): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(6): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3.164 LARGE PIN, O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
3.164

Engine Desc:
From ESN 179,602

Engine Data:
Large Pin, O'rings on Block

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Block (M):
R55100, R72967, R72965, R80408

Con Rod (M):
RE19733 (SUB FOR AT18005)

Piston (M):
AR77762

Farm Tractors
1530
2040
2330

Backhoe Loaders
301A
302
302A
310

Crawler Dozers
350B
350C
350D

1) **Engine O/H Kit**
- TOK3041

2) **Engine I/F Kit**
- TIK3041
- SPEC SHEET - 3.164

Piston-Liner Kit
- TAR78041

Consists of:
- a) TAR77762
- b) TAR55759
- c) TR125754
- d) TR116463
- e) TAR71618
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

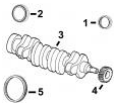
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



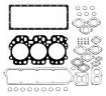
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT18031

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

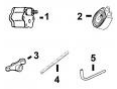
5) **Rocker Cover Gsk**
- TR75729

1) **Bush, Con Rod**
- TR55647 x3

2) **Bolt, Con Rod**
- TR74194 x6

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TRE16495 3



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 2

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 5

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627

1) **Thermostat**
- TRE33705 180° F 1

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 6

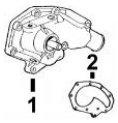
4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507 7

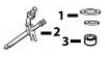
With Impeller
- TRE62658 7



1) **Water Pump**
- TAT27018 4

2) **Water Pump Gasket**
- TT20242
- TT20268

Transmission Oil Pump
- TAL120106 4



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with Housing (m) R54096, R70741, R74549.

(2): Conversion Kit TMX386: Available Consists of: TT31306 x1 Nipple TR99802 x2 Hose.

(3): For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt TR80033.

(4): (m) R48997, (m) R51039.

(5): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(6): Check for Proper Application.

(7): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3.179D

Engine Series:
300

Engine Model:
3.179D

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R80034

Piston (M):
RE24458 , RE24539, RE30250

Farm Tractors
1140
1140
1350
1550
1630
1750
1850
2040
2150
2155
2240
5000

Crawler Dozers
350D
355D

Ditch Witch
JT2320 Directional Boring System

1) **Engine O/H Kit**
- TRE47653

2) **Engine I/F Kit**
- TIK47653
- SPEC SHEET - 3.179D

Piston-Liner Kit
- TRE30250

Consists of:
- a) TRE19282
- b) TRE66820
- c) TR125754
- d) TR116281
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3

1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

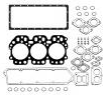
3) **Crankshaft**
- TAT18031 [1]

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

5) **Rocker Cover Gsk**
- TR75729

1) **Bush, Con Rod**
- TR55647 x3

2) **Bolt, Con Rod**
- TR80033 x6

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TRE16495

1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [4]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Cyl Hd Cap Screw**
- TR85363 x14 [3]

7) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 [8]

8) **Camshaft**
- TR106957 [8]

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

1) **Thermostat**
- TRE33705 180° F [2]

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [7]

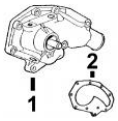
4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658



1) **Water Pump**
- TAR97708U [5]
- TRE60489 [6]
- TAR92641 [7]

2) **Water Pump Gasket**
- TT20242
- TT20268

Transmission Oil Pump
- TAL120106
- TAL68094

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Glow Plug**
- TRE502079

5) **Cap**
- TAT27622
- TAR85618

6) **Washer**
- TT29539

7) **Tube Nut**
- TR51937

(1): Crankshaft (m) T23516 (36 mm / 1.37" Snout.) This engine may use TRE50979 (60 mm / 2.36" Snout) (m) R91834.
(3): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5): (m) R73604.

(7): Check your application for proper usage.

(2): Do not use with Housing (m) R54096, R70741, R74549. For Saran Repower Engines use TRE64354.
(4): Use on engines ESN 794193, after this ESN use TRE61767.

(6): (m) R78286, (m) R70437, (m) R100812, (m) R127337, (m) R127918, (m) R55164.
(8): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

JOHN DEERE 3029D LITER DESIGNATED

Engine Series:
300

Engine Model:
3029D

Engine Desc:
Liter Designated

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R51727, R80034

Piston (M):
RE30250

Farm Tractors
5200
5300
5400

Skid Steers
240
240 Series II

1) **Engine O/H Kit**
- TRE47653

2) **Engine I/F Kit**
- TIK47653
- SPEC SHEET - 3029D

Piston-Liner Kit
- TRE30250

Consists of:
- a) TRE19282
- b) TRE66820
- c) TR125754
- d) TR116281
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3

1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

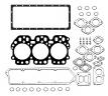
3) **Crankshaft**
- TRE521348 [5]

4) **Crankshaft, Gear**
- TT20094 [3]

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

5) **Rocker Cover Gsk**
- TR75729 [2]
- TR106796 [1]

1) **Bush, Con Rod**
- TR55647 x3

2) **Bolt, Con Rod**
- TR80033 x6

3) **Camshaft Kit**
- TRE55900

4) **Con Rod**
- TRE16495

1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE61767

5) **Pump, Oil Tube**
- TR113752

4) **Cyl Hd Cap Screw**
- TR85363 x14 [4]

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 [3]

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 [3]

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070 [3]

7) **Camshaft Kit**
- TRE55900 [9]

8) **Camshaft**
- TR106957 [9]

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR98063 O/S
- TR98335 O/S

2) Insert, Valve Ex
- TR51734 Std.
- TR93910 O/S

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005

1) **Thermostat**
- TRE64354 180° F

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [8]

4) **Thermostat Cover Gsk**
- TT20215

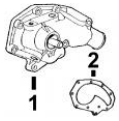
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

3) **Fuel Filter Base with Prime**
- TRE67225

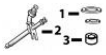
Water Pump Repair Kit
- Without Impeller
- TRE19507 [10]

With Impeller
- TRE62658 [10]



1) **Water Pump**
- TAR97708U [6]
- TRE60489 [7]
- TAR92641 [8]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE36936

3) **Kit, Grommet**
- TMX504

(1): Not included in Gasket Set. Used in Saran Engines (Order Separately).

(2): Reusable.

(3): Helicoidal Gears.

(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

(6): (m) R73604.

(7): m) R100812, (m) R127337, (m) R127918, (m) R55164.

(8): Check your application for proper usage.

(9): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(10): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3.179T

Engine Series:
300

Engine Model:
3.179T

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R80032

Piston (M):
RE22678

Farm Tractors
2355NCS
2355NTSS

Ditch Witch
JT2321
Directional Boring System

1) **Engine O/H Kit**
- TOK3115

2) **Engine I/F Kit**
- TIK3115
- SPEC SHEET - 3.179T, 3029T

Piston-Liner Kit
- TRE33115

Consists of:
- a) TRE19278
- b) TRE66820
- c) TR124230
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

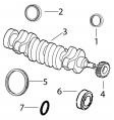
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

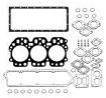
3) **Crankshaft**
- TAT18031 [3]

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



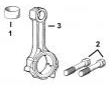
1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

5) **Rocker Cover Gsk**
- TR75729



1) **Bush, Con Rod**
- TR57451 x3

2) **Bolt, Con Rod**
- TR80033 x6

3) **Con Rod**
- TRE58347

4) **Kit, Piston Pin**
- TRE63913 x3

1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [4]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54985

5) **Pump, Oil Tube**
- TR113752

6) **Cyl Hd Cap Screw**
- TR85363 x14 [2]

7) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070

7) **Camshaft Kit**
- TRE55900 [8]

8) **Camshaft**
- TR106957 [8]

Valve, Intake
- TR83071 Std.
- TR89223 0.003
- TR89224 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

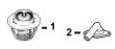
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627



1) **Thermostat**
- TRE33705 180° F [1]

2) **Thermostat Cover**
- TT23620

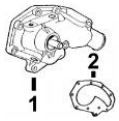
3) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507 [9]

With Impeller
- TRE62658 [9]



1) **Water Pump**
- TAR97708U [5]
- TRE60489 [6]
- TAR92641 [7]

2) **Water Pump Gasket**
- TT20242
- TT20268

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX504

4) **Glow Plug**
- TRE502079

(1): Do not use with Housing (m) R54096, R70741, R74549. For Saran Repower Engines use TRE64354.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): Crankshaft (m) T23516 (36 mm / 1.37" Snout.) This engine may use TRE50979 (60 mm / 2.36" Snout) (m) R91834.

(4): Use on engines ESN 794193, after this ESN use TRE61767.

(5): (m) R73604.

(6): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(7): Check your application for proper usage.

(8): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(9): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

JOHN DEERE 3029T LITER DESIGNATED

Engine Series:
300

Engine Model:
3029T

Engine Desc:
Liter Designated

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R80032, R58979, R113612

Piston (M):
RE48368

Farm Tractors
5500

Skid Steers
250
250 Series II
260
260 Series II
8875

Engine Model
3029DLV51
3029DLV52
3029DLV53
3029DLV55
3029DLV56
3029DLV57

Ditch Witch
JT2321 Directional Boring System

1) **Engine O/H Kit**
- TOK3115

2) **Engine I/F Kit**
- TIK3115
- SPEC SHEET - 3.179T, 3029T

Piston-Liner Kit
- TRE33115

Consists of:
- a) TRE19278
- b) TRE66820
- c) TR124230
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

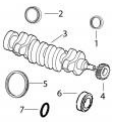
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

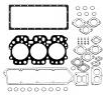
3) **Crankshaft**
- TRE521348 [5]

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



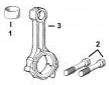
1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

5) **Rocker Cover Gsk**
- TR75729 [2]
- TR106796 [1]



1) **Bush, Con Rod**
- TR57451 x3

2) **Bolt, Con Rod**
- TR80033 x6

3) **Con Rod**
- TRE58347

4) **Kit, Piston Pin**
- TRE63913 x3

1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE61767

3) **Pump, Oil Tube**
- TR113752

4) **Cyl Hd Cap Screw**
- TR85363 x14 [4]

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 [3]

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 [3]

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070 [3]

7) **Camshaft Kit**
- TRE55900 [9]

8) **Camshaft**
- TR106957 [9]

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR98063 O/S
- TR98335 O/S

2) Insert, Valve Ex
- TR51734 Std.
- TR93910 O/S

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005

1) **Thermostat**
- TRE64354 180° F

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [8]

4) **Thermostat Cover Gsk**
- TT20215

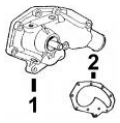
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

3) **Fuel Filter Base with Prime**
- TRE67225

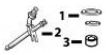
Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658



1) **Water Pump**
- TAR97708U [6]
- TRE60489 [7]
- TAR92641 [8]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087 [8]
- TRE50833 [8]

3) **Inj Grommet Kit**
- TMX504

(1): Not included in Gasket Set. Used in Saran Engines (Order separately).

(2): Reusable.

(3): Helicoidal Gears.

(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

(6): (m) R73604.

(7): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(8): Check your application for proper usage.

(9): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

JOHN DEERE 4.202 O'RINGS ON LINER

Engine Series:
300

Engine Model:
4.202

Engine Desc:
To 158,257

Engine Data:
O'rings on Liner

Engine Dimensions:
Bore: 3.86 in / 98 mm (2) Pin Ø: 1.1878 in (+/- .0001) = 30mm

Block (M):
T23406, T24961, T26933

Con Rod (M):
RE19733 (SUB FOR AT18005)

Piston (M):
T23481

Farm Tractors
2020
2510

Backhoe Loaders
400

Crawler Dozers
450

Skidders
440

Forklifts
480

1) **Engine O/H Kit**
- TOK4481

2) **Engine I/F Kit**
- TIK4481
- SPEC SHEET - 4.202

Piston-Liner Kit
- TPLK481

Consists of:
- a) TT23481
- b) TAR70633
- c) TT23482
- d) TAR51902
- e) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

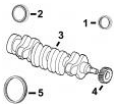
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



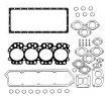
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574 [1]

3) **Crankshaft**
- TAT18030

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE38558

2) **Head Gasket Set**
- TRE38847

3) **Head Gasket**
- TR98461

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Exhaust Manifold Gsk**
- TR90658

7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TT23471 x4

2) **Bolt, Con Rod**
- TR74194 x8 [3]

3) **Bush, Bal. Shaft**
- TR57160 x6 [6]
- TR91708 x6 [7]

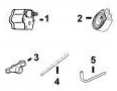
4) **Bal. Shaft R/H**
- TRE26282 R/H

5) **Bal. Shaft L/H**
- TRE26283 L/H

6) **Camshaft**
- TR82820 [5]

7) **Bal. Shaft Stop**
- TR88112

8) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

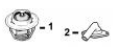
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627



1) **Thermostat**
- TRE33705 180° F [4]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

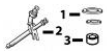
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658

Water Pump Gasket
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with Flywheel Housing (m) T20300, T22991.

(3): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(4): Do not use with Housing (m) R54096, R70741, R74549.

(5): Threaded Type.

(6): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(7): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

JOHN DEERE 4.202 O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
4.202

Engine Desc:
From 158,258

Engine Data:
O'rings on Block

Engine Dimensions:
Bore: 3.86 in / 98 mm (2) Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Block (M):
R53230, R53250, R55034, R72973, T32342

Con Rod (M):
RE19733 (SUB FOR AT18005)

Piston (M):
T23481

Farm Tractors
2020
2120
2510

Backhoe Loaders
400

Forklifts
480

Skidders
440

1) **Engine O/H Kit**
- TOK4591

2) **Engine I/F Kit**
- TIK4591
- SPEC SHEET - 4.202

Piston-Liner Kit
- TAR71591

Consists of:
- a) TT23481
- b) TAR70633
- c) TT23482
- d) TT32340
- e) TAR71617
- f) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

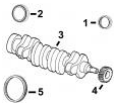
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



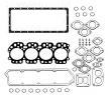
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574 [1]

3) **Crankshaft**
- TAT18030

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE38558

2) **Head Gasket Set**
- TRE38847

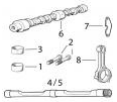
3) **Head Gasket**
- TR98461

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Exhaust Manifold Gsk**
- TR90658

7) **Gasket Thermostat Housing**
- TT20219



1) **Bush, Con Rod**
- TT23471 x4

2) **Bolt, Con Rod**
- TR74194 x8 [3]

3) **Bush, Bal. Shaft**
- TR57160 x6 [6]
- TR91708 x6 [7]

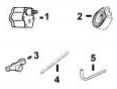
4) **Bal. Shaft R/H**
- TRE26282 R/H

5) **Bal. Shaft L/H**
- TRE26283 L/H

6) **Camshaft**
- TR82820 [5]

7) **Bal. Shaft Stop**
- TR88112

8) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

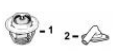
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627



1) **Thermostat**
- TRE33705 180° F [4]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

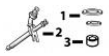
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658

Water Pump Gasket
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with Flywheel Housing (m) T20300, T22991.

(2): Always verify Bore diameter, on Block Replacement is 4.016"/102mm.

(3): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(4): Do not use with Housing (m) R54096, R70741, R74549.

(5): Threaded Type.

(6): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(7): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

JOHN DEERE 4.219 SMALL PIN, O'RINGS ON LINER

Engine Series:
300

Engine Model:
4.219

Engine Desc:
To ESN 275,483

Engine Data:
O'rings on Liner Small Pin

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Con Rod (M):
T20007, R81410

Piston (M):
RE53265

Farm Tractors
2520

Skidders
440A

1) **Engine O/H Kit**
- TOK4310

2) **Engine I/F Kit**
- TIK4310
- SPEC SHEET - 4.219

Piston-Liner Kit
- TPLK310

Consists of:
- a) TAR78310
- b) TAR55759
- c) TT26149
- d) TAR51903
- e) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

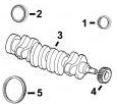
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



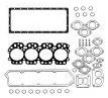
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT18030

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879

1) **Bush, Con Rod**
- TT23471 x4

2) **Bolt, Con Rod**
- TR74194 x8 [1]

3) **Bush, Bal. Shaft**
- TR57160 x6 [4]
- TR91708 x6 [6]

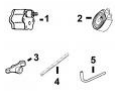
4) **Bal. Shaft R/H**
- TRE26282 R/H

5) **Bal.Shaft L/H**
- TRE26283 L/H

6) **Camshaft**
- TR82820 [3]

7) **Bal. Shaft Stop**
- TR88112

8) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

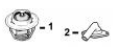
1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627



1) **Thermostat**
- TRE33705 180° F [2]

2) **Thermostat Cover**
- TT23620

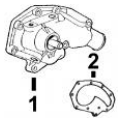
3) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

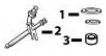
Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658



1) **Water Pump**
- TAT27018 [5]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(2): Do not use with Housing (m) R54096, R70741, R74549.

(3): Threaded Type.

(4): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(5): (m) R48997, (m) R51039.

(6): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

JOHN DEERE 4.219 SMALL PIN, O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
4.219

Engine Desc:
To ESN 275,483

Engine Data:
O'rings on Block
Small Pin

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Block (M):
T32342

Con Rod (M):
T20007, R81410

Piston (M):
RE53265, T30015, R51451, AR78310

Cotton Pickers
499

Farm Tractors
2030
2120

Windrowers
2270
2320
2420

Backhoe Loaders
401
401A

Crawler Dozers
450A
450B

Skidders
440
440B

Forklifts
480A

1) **Engine O/H Kit**
- TOK4593

2) **Engine I/F Kit**
- TIK4593
- SPEC SHEET - 4.219

Piston-Liner Kit
- TAR71593

Consists of:
- a) TAR78310
- b) TAR55759
- c) TT26149
- d) TR116463
- e) TAR71618
- f) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

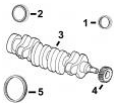
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



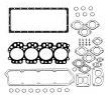
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT18030

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

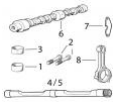
3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879



1) **Bush, Con Rod**
- TT23471 x4

2) **Bolt, Con Rod**
- TR74194 x8 [1]

3) **Bush, Bal. Shaft**
- TR57160 x6 [4]
- TR91708 x6 [6]

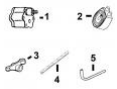
4) **Bal. Shaft R/H**
- TRE26282 R/H

5) **Bal.Shaft L/H**
- TRE26283 L/H

6) **Camshaft**
- TR82820 [3]

7) **Bal. Shaft Stop**
- TR88112

8) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

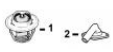
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627



1) **Thermostat**
- TRE33705 180° F [2]

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

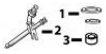
2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658

1) **Water Pump**
- TAT27018 [5]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(2): Do not use with Housing (m) R54096, R70741, R74549.

(3): Threaded Type.

(4): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(5): (m) R48997, (m) R51039.

(6): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

JOHN DEERE 4.219 LARGE PIN, O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
4.219 (1)

Engine Desc:
From ESN 275,484

Engine Data:
O'rings on Block
Large Pin

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R51727, R80034

Please see page **461** for a complete list of equipment models.

1) **Engine O/H Kit**
- TAT86984

2) **Engine I/F Kit**
- TIK86984
- SPEC SHEET - 4.219

Piston-Liner Kit
- TAR78041

Consists of:
- a) TAR77762
- b) TAR55759
- c) TR125754
- d) TR116463
- e) TAR71618
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

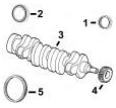
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



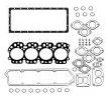
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT18030

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

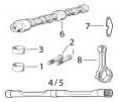
3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879



1) **Bush, Con Rod**
- TR55647 x4

2) **Bolt, Con Rod**
- TR74194 x8 [2]

3) **Bush, Bal. Shaft**
- TR57160 x6 [5]
- TR91708 x6 [8]

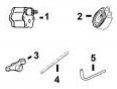
4) **Bal. Shaft R/H**
- TRE26282 R/H

5) **Bal.Shaft L/H**
- TRE26283 L/H

6) **Camshaft**
- TR82820 [4]

7) **Bal. Shaft Stop**
- TR88112

8) **Con Rod**
- TRE16495



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

1) **Thermostat**
- TRE33705 180° F [3]

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [7]

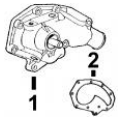
4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

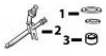
Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658



1) **Water Pump**
- TAT27018 [6]

2) **Water Pump Gasket**
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Some of these engines maybe turbocharged.

(2): For Connecting Rods TRE16495 and RE21076 Use Connecting Rod Bolt TR80033.

(3): Do not use with Housing (m) R54096, R70741, R74549.

(4): Threaded Type.

(5): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(6): (m) R48997, (m) R51039.

(7): Check for proper Application.

(8): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

JOHN DEERE 4.239D

Engine Series:
300

Engine Model:
4.239D

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R80034

Piston (M):
RE30250

Please see page **462** for a complete list of equipment models.

1) **Engine O/H Kit**
- TAT86992

2) **Engine I/F Kit**
- TIK86992
- SPEC SHEET - 4.239D

Piston-Liner Kit
- TRE30250

Consists of:
- a) TRE19282
- b) TRE66820
- c) TR125754
- d) TR116281
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4

1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

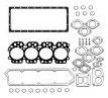
3) **Crankshaft**
- TAT18030 [1]
- TRE20585 [2]

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879

1) **Bush, Con Rod**
- TR55647 x4

2) **Bolt, Con Rod**
- TR80033 x8 [3]

3) **Bush, Bal. Shaft**
- TR57160 x6 [5]
- TR91708 x6 [11]

4) **Bal. Shaft R/H**
- TRE26282
- TAR69710 [10]

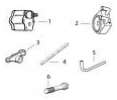
5) **Bal Shaft L/H**
- TRE26283
- TAR69711 [10]

6) **Camshaft**
- TR82820 [4]

7) **Bal Shaft Stop**
- TR88112

8) **Con Rod**
- TRE16495

9) **Cam Bearing**
- TR119874 [9]



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929 [8]

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752 [8]

6) **Cyl Hd Cap Screw**
- TR85363 x18 [6]

7) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627

1) **Thermostat**
- TRE33705 180° F

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [8]

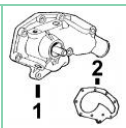
4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658



1) **Water Pump**
- TAR97708U [7]
- TAR92641 [8]
- TAR97717 [8]

2) **Water Pump Gasket**
- TT20242
- TT20268

Transmission Oil Pump
- TAL120106 [8]
- TAL68094 [8]

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX504

4) **Glow Plug**
- TRE502079

5) **Cap**
- TAT27622
- TAR85618

6) **Washer**
- TT29539

7) **Tube Nut**
- TR51937

(1): TAT18030 Crankshaft 36mm (short) snout, (m) T23517.

(2): TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.

(3): For Connecting Rod (m) R58979, use TR74194 Connecting Rod Bolt available upon request.

(4): Threaded Type.

(5): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(6): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(7): (m) R73604.

(8): Check for proper application.

(9): The cam bearing is used in the late style blocks and it is not included in the overhaul kit.

(10): These shafts are made for bolt on weights.

(11): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

JOHN DEERE 4039D LITER DESIGNATED

Engine Series:
300

Engine Model:
4039D

Engine Desc:
Liter Designated

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Block (M):
R88984

Con Rod (M):
R80034

Piston (M):
RE30250, RE18697

Farm Tractors
5600

Backhoe Loaders
210D
310C
310D
315C
315D
515B

Excavators
290D
70D

Crawler Dozers
400G

Forklifts
482C

1) **Engine O/H Kit**
- TAT86992

2) **Engine I/F Kit**
- TIK86992
- SPEC SHEET - 4039D

Piston-Liner Kit
- TRE30250

Consists of:
- a) TRE19282
- b) TRE66820
- c) TR125754
- d) TR116281
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

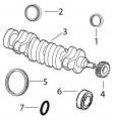
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

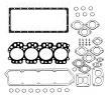
3) **Crankshaft**
- TAT18030 13
- TRE20585 14

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521
- TR106796 3

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879

1) **Bush, Con Rod**
- TR55647 x4

2) **Bolt, Con Rod**
- TR80033 x8

3) **Bush, Bal. Shaft**
- TR57160 x6 4
- TR91708 x6 16

4) **Bal. Shaft R/H**
- TRE26282
- TAR69710 15

5) **Bal Shaft L/H**
- TRE26283
- TAR69711 15

6) **Camshaft**
- TR82820 8

7) **Camshaft Kit**
- TRE55901 12

8) **Con Rod**
- TRE16495

9) **Cam Bearing**
- TR119874

1) **Pump, Oil**
- TRE55343 2

2) **Oil Cooler**
- TRE31929

3) **Pump, Oil Tube**
- TR113752

4) **Cyl Hd Cap Screw**
- TR85363 x18 1

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 6

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 6

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070 6

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR98063 Std.
- TR98335 O/S.

2) Insert, Valve Ex
- TR85687 Std.
- TR93910 O/S

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005

1) **Thermostat**
- TAR48675 180° F 5

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 11

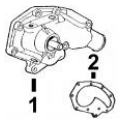
4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211 11
- TRE38009 7
- TRE55390 11

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658



1) **Water Pump**
- TAR97708U 9
- TRE60489 10
- TRE16666 11
- TAR92641 11
- TAR97717 11

2) **Water Pump Gasket**
- TT20242
- TT20268

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE36936

3) **KIT, GROMMET**
- TMX504

4) **Glow Plug**
- TRE502079

(1): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2): May use High cap. Pump, Oil TRE65580.
(3): O'ring not included in Gasket Set. Used in Saran Engines. Order separately.
(4): TR57160 (Inner Diam 0.5 mm / 0.020 in)
(5): Saran engines may use TRE64354.
(6): Helicoidal Gears.
(7): Saran Engines.
(8): Threaded Type.
(9): (m) R73604.
(10): (m) R100812, (m) R127337, (m) R127918, (m) R55164.
(11): Check application for proper usage.
(12): For Late 4039 models.
(13): TAT18030 Crankshaft 36mm (short) snout, (m) T23517.
(14): TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.
(15): These shafts are made for bolt on weights.
(16): TR91708 (Outer Diam. 2.00 mm / 0.078 in). O/S

Engine Series:
300

Engine Model:
4.239T

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R80032, R113612, R122191

Piston (M):
RE19278

Please see page **463** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE54709

2) **Engine I/F Kit**
- TIK54709
- SPEC SHEET - 4.239T

Piston-Liner Kit
- TRE33115

Consists of:
- a) TRE19278
- b) TRE66820
- c) TR124230
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

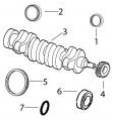
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

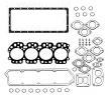
3) **Crankshaft**
- TAT18030 [1]
- TRE20585 [4]

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

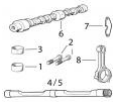
3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879



1) **Bush, Con Rod**
- TR57451 x4

2) **Bolt, Con Rod**
- TR80033 x8

3) **Bush, Bal. Shaft**
- TR57160 x6 [3]
- TR91708 x6 [11]

4) **Bal. Shaft R/H**
- TRE26282
- TAR69710 [10]

5) **Bal Shaft L/H**
- TRE26283
- TAR69711 [10]

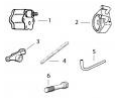
6) **Camshaft**
- TR82820 [5]

7) **Bal Shaft Stop**
- TR88112

8) **Con Rod**
- TRE58347

9) **Kit, Piston Pin**
- TRE63913 x4

10) **Cam Bearing**
- TR119874 [9]



1) **Pump, Oil**
- TRE55343 [2]

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Cyl Hd Cap Screw**
- TR85363 x18 [6]

7) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR83071 Std.
- TR89223 0.003
- TR89224 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627

1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [8]

4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

1) **Water Pump Repair Kit**
- See Chart

2) **Turbocharger**
- TRE26287 [8]

Water Pump
- TAR97708U [7]
- TAR92641 [8]
- TAR97717 [8]

Transmission Oil Pump
- TAL120106
- TAL68094

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX504

4) **Glow Plug**
- TRE502079

(1): TAT18030 Crankshaft 36mm (short) snout, (m) T23517.

(2): May use High cap. Pump, Oil TRE65580.

(3): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(4): TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.

(5): Threaded Type.

(6): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(7): (m) R73604.

(8): Check your application for proper usage.

(9): The cam bearing is used in the late style blocks and it is not included in the overhaul kit.

(10): These shafts are made for bolt on weights.

(11): TR91708 (Outer Diam. 2.00 mm / 0.078 in) O/S

JOHN DEERE 4039T LITER DESIGNATED

Engine Series:
300

Engine Model:
4039T

Engine Desc:
Liter Designated

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R80032, R122191, R113612

Piston (M):
RE19278

Farm Tractors
5500N
5700
6200
6200L
SE6200
6210
6300
6300L
SE6300
6310

Backhoe Loaders
300D
310C
315C
315D
515B

Engine Model
4039TF008

1) **Engine O/H Kit**
- TRE54709

2) **Engine I/F Kit**
- TIK54709
- SPEC SHEET - 4039T

Piston-Liner Kit
- TRE33115

Consists of:
- a) TRE19278
- b) TRE66820
- c) TR124230
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

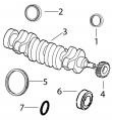
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

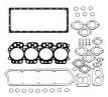
3) **Crankshaft**
- TAT18030 13
- TRE20585 14

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501579

2) **Head Gasket Set**
- TRE38851

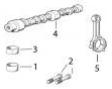
3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521
- TR106796 2

6) **Gasket, Injection Pump**
- TR125066

7) **Gasket, Turbo Mount**
- TR89879



1) **Bush, Con Rod**
- TR57451 x4

2) **Bolt, Con Rod**
- TR80033 x8

3) **Bush, Bal. Shaft**
- TR57160 x6 4
- TR91708 x6 16

4) **Camshaft**
- TR82820 8

5) **Con Rod**
- TRE58347

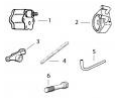
6) **Bal Shaft R/H**
- TRE26282
- TAR69710 15

7) **Bal Shaft L/H**
- TRE26283
- TAR69711 15

8) **Camshaft Kit**
- TRE55901 12

9) **Kit, Piston Pin**
- TRE63913 x4

10) **Cam Bearing**
- TR119874



1) **Pump, Oil**
- TRE55343 3

2) **Oil Cooler**
- TRE31929 11

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Pump, Oil Tube**
- TR113752

6) **Cyl Hd Cap Screw**
- TR85363 x18 1

7) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 6

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034 6

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070 6

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR98063 O/S
- TR98335 O/S

2) Insert, Valve Ex
- TR85687 Std.
- TR93910 O/S

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005

1) **Thermostat**
- TAR48675 180° F 5

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 11

4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211 11
- TRE38009 7
- TRE55390 11

2) **Fuel Pump Gasket**
- TR27285

1) **Water Pump Repair Kit**
- See Chart

2) **Turbocharger**
- TRE26287 11

Water Pump
- TAR97708U 9
- TRE60489 10
- TRE16666 11
- TRE41157 11
- TAR92641 11
- TAR97717 11

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087

3) **KIT, GROMMET**
- TMX504

4) **Glow Plug**
- TRE502079

(1): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(2): Saran engines, O'ring not included in Gasket Set. Order separately.

(3): May use High cap. Pump, Oil TRE65580.

(4): TR57160 (Inner Diam 0.5 mm / 0.020 in).

(5): Saran engines may use TRE64354.

(6): Helicoidal Gears.

(7): Saran Engines.

(8): Threaded Type.

(9): (m) R73604.

(10): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(11): Check application for proper usage.

(12): For Late 4039 models.

(13): TAT18030 Crankshaft 36mm (short) snout, (m) T23517.

(14): TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.

(15): These shafts are made for bolt on weights.

(16): TR91708 (Outer Diam. 2.00 mm / 0.078 in) O/S

JOHN DEERE 4.276D SMALL PIN

Engine Series:
300

Engine Model:
4.276D

Engine Desc:
Small Pin

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.375 in / 35 mm

Con Rod (M):
R54617

Farm Tractors
2630
2640

Backhoe Loaders
410C

1) **Engine O/H Kit**
- TAT86990

2) **Engine I/F Kit**
- TIK86990
- SPEC SHEET - 4.276D

Piston-Liner Kit
- TRE19831

Consists of:
- a) TAR63342
- b) TRE66820
- c) TR125754
- d) TR80500
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

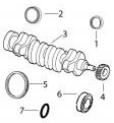
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

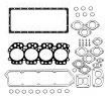
3) **Crankshaft**
- TRE56792

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501568

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

1) **Bush, Con Rod**
- TR57450 x4

2) **Bolt, Con Rod**
- TR74195 x8 4

3) **Bush, Bal. Shaft**
- TR57160 x6
- TR91708 x6 8

4) **Bal. Shaft R/H**
- TRE26282
- TAR69710 7

5) **Bal Shaft L/H**
- TRE26283
- TAR69711 7

Camshaft
- TR82820 2

1) **Pump, Oil**
- TRE65580 1

2) **Rocker Arm**
- TRE31973

3) **Rocker Shaft**
- TR54987

4) **Cyl Hd Cap Screw**
- TR85363 x18 5 3

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 5

4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

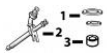
2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
-

Without Impeller
- TRE19507 6

With Impeller
- TRE62658 6

Water Pump Gasket
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX504

(1): This engine may use standard flow Pump, Oil TRE55343.

(2): Threaded Type.

(3): From ESN 137128 Replace all R78558 Cap Screws withFlanged Head Cap Screw TR85363.

(4): When used on connecting rods marked R54617, torque bolts to 95 ft.lbs. Only.

(5): Check for proper application.

(6): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

(7): These shafts are made for bolt on weights.

(8): O/S

JOHN DEERE 4.276D LARGE PIN

Engine Series:
300

Engine Model:
4.276D

Engine Desc:
Large Pin

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.625 in / 41 mm

Wheel Loaders
344E

Backhoe Loaders
410C
410D
510B

Crawler Dozers
450E
450G
455E
455G

Excavators
490D
493D

Skidders
340D
440C

1) **Engine O/H Kit**
- TRE63694

2) **Engine I/F Kit**
- TIK63694
- SPEC SHEET - 4.276D

Piston-Liner Kit
- TRE28966

Consists of:
- a) TRE28919
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

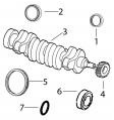
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

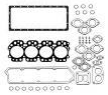
3) **Crankshaft**
- TRE56792

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501568

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

1) **Bush, Con Rod**
- TR57451 x4

2) **Bolt, Con Rod**
- TR74195 x8 — 4

3) **Bush, Bal. Shaft**
- TR57160 x6
- TR91708 x6 — 6

4) **Bal. Shaft R/H**
- TRE26282
- TAR69710 — 5

5) **Bal Shaft L/H**
- TRE26283
- TAR69711 — 5

6) **Camshaft**
- TR82820 — 2

7) **Kit, Piston Pin**
- TRE63913 x4

8) **Con Rod**
- TRE53716

1) **Pump, Oil**
- TRE65580 — 1

2) **Rocker Arm**
- TRE31973

3) **Rocker Shaft**
- TR54987

4) **Cyl Hd Cap Screw**
- TR85363 x18 — 3

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064

2) **Insert, Valve Ex**
- TR51734 Std.
- TR93910

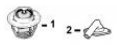
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627



1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

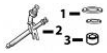
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19507

With Impeller
- TRE62658

Water Pump Gasket
- TT20242
- TT20268



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX504

(1): This engine may use standard flow Pump, Oil TRE55343.

(2): Threaded Type.

(3): From ESN 137128 Replace all R78558 Cap Screws withFlanged Head Cap Screw TR85363.

(4): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

(5): These shafts are made for bolt on weights.

(6): O/S

JOHN DEERE 4045D LITER DESIGNATED

Engine Series:
300

Engine Model:
4045D

Engine Desc:
Liter Designated

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.625 in / 41 mm

Please see page **464** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE63694

2) **Engine I/F Kit**
- TIK63694

Piston-Liner Kit
- TRE28966

Consists of:
- a) TRE28919
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

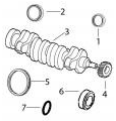
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

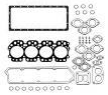
3) **Crankshaft**
- TRE56792 10
- TRE54883

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501568

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521

1) **Bush, Con Rod**
- TR57451 x4

2) **Bolt, Con Rod**
- TR74195 x8 7

3) **Bush, Bal. Shaft**
- TR57160 x6
- TR91708 x6 13

4) **Camshaft**
- TR82820 4

5) **Bal Shaft R/H**
- TRE26282
- TAR69710 12

6) **Bal Shaft L/H**
- TRE26283
- TAR69711 12

7) **Kit, Piston Pin**
- TRE63913 x4

8) **Con Rod**
- TRE53716

9) **Camshaft Kit**
- TRE55901 11

1) **Pump, Oil**
- TRE65580 1

2) **Oil Cooler**
- TRE31929 6

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Cyl Hd Cap Screw**
- TR85363 x18 5

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR98063 Std.
- TR98335 O/S

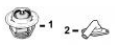
2) Insert, Valve Ex
- TR85687 Std.
- TR93910 O/S

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005



1) **Thermostat**
- TAR48675 180° F 2

2) **Thermostat Cover**
- TT23620

3) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211
- TRE38009 3

2) **Fuel Pump Gasket**
- TR27285

3) **Fuel Filter Base with Primer**
- TRE67225

Water Pump Repair Kit
- See Chart

Water Pump
- TAR97708U 8
- TRE60489 9
- TRE16666 10

Water Pump
- TRE41157

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087

3) **KIT, GROMMET**
- TMX504

4) **Glow Plug**
- TRE502079

(1): Saran engines use TRE55343 Standard flow.

(2): Saran engines may use TRE64354.

(3): Saran Engines.

(4): Threaded Type.(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(6): Always verify Oil Cooler Type.

(7): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs.

(8): (m) R73604.

(9): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(10): Crankshaft (m) R54501. This Engines model may also use crankshaft TRE54883 60mm Snout; (m) R90825, R120009. PLEASE VERIFY.

(11): For Late 4039 models.

(12): These shafts are made for bolt on weights.

(13): O/S

JOHN DEERE 4.276T

Engine Series:
300

Engine Model:
4.276T

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.625 in / 41 mm

Please see page **465** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE61612

2) **Engine I/F Kit**
- TIK61612
- SPEC SHEET - 4.276T

Piston-Liner Kit
- TRE53073

Consists of:
- a) TRE48469
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

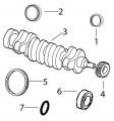
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

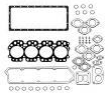
3) **Crankshaft**
- TRE56792

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501568

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521
- TR106796 [7]

1) **Bush, Con Rod**
- TR57451 x4

2) **Bolt, Con Rod**
- TR74195 x8 [5]

3) **Bush, Bal. Shaft**
- TR57160 x6
- TR91708 X6 [9]

4) **Bal. Shaft R/H**
- TRE26282
- TAR69710 [8]

5) **Bal Shaft L/H**
- TRE26283
- TAR69711 [8]

6) **Camshaft**
- TR82820 [3]

7) **Kit, Piston Pin**
- TRE63913 x4

8) **Con Rod**
- TRE53716

1) **Pump, Oil**
- TRE65580 [1]

2) **Rocker Arm**
- TRE31973

3) **Rocker Shaft**
- TR54987

4) **Cyl Hd Cap Screw**
- TR85363 x18 [4]

5) **Tensioner Belt**
- TAL110621

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR83071 Std.
- TR89223 0.003
- TR89224 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Cover**
- TT23620

3) **Water Temp Sensor**
- TRE51774 [6]

4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

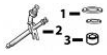
2) **Fuel Pump Gasket**
- TR27285

1) **Water Pump Repair Kit**
-

Without Impeller
- TRE19510

With Impeller
- TRE11348

2) **Turbocharger**
- TRE26287 [6]



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX504

(1): This engine may use Standard Flow Pump, Oil TRE55343.

(2): Do not use 45 degree Valves with RE56545 Head.

(3): Threaded Type

(4): From ESN 137128 Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363

(5): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

(6): Check for proper application

(7): Saran engines, O'ring not included in Gasket Set. Order separately.

(8): These shafts are made for bolt on weights.

(9): O/S

JOHN DEERE 4045T LITER DESIGNATED

Engine Series:
300

Engine Model:
4045T

Engine Desc:
Liter Designated

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.625 in / 41 mm

Please see page **466** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE61612

2) **Engine I/F Kit**
- TIK61612
- SPEC SHEET - 4045T

Piston-Liner Kit
- TRE53073

Consists of:
- a) TRE48469
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

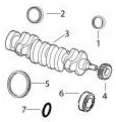
Use 4

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 4



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

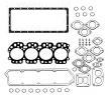
3) **Crankshaft**
- TRE56792 11
- TRE54883

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501568

2) **Head Gasket Set**
- TRE38851

3) **Head Gasket**
- TR125863

4) **Oil Pan Gasket**
- TR97342

5) **Rocker Cover Gsk**
- TR73521
- TR106796 13

1) **Bush, Con Rod**
- TR57451 x4

2) **Bolt, Con Rod**
- TR74195 x8 7

3) **Bush, Bal. Shaft**
- TR57160 x6
- TR91708 x6 15

4) **Camshaft**
- TR82820 4

5) **Bal Shaft R/H**
- TRE26282
- TAR69710 14

6) **Bal Shaft L/H**
- TRE26283
- TAR69711 14

7) **Kit, Piston Pin**
- TRE63913 x4

8) **Con Rod**
- TRE53716

9) **Camshaft Kit**
- TRE55901 12

1) **Pump, Oil**
- TRE65580 1

2) **Oil Cooler**
- TRE31929 6

3) **Rocker Arm**
- TRE31973

4) **Rocker Shaft**
- TR54987

5) **Cyl Hd Cap Screw**
- TR85363 x18 5

6) **Tensioner Belt**
- TAL110621

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x8

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR98063 Std.
- TR98335 O/S

2) Insert, Valve Ex
- TR85687 Std.
- TR93910 O/S

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005

1) **Thermostat**
- TAR48675 180° F 2

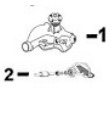
2) **Thermostat Cover**
- TT23260

3) **Water Temp Sensor**
- TRE51774 10

1) **Fuel Transfer Pump**
- TRE42211
- TRE38009 3

2) **Fuel Pump Gasket**
- TR27285

3) **Fuel Filter Base with Primer**
- TRE67225



1) **Water Pump**
- TAR97708U 9
- TRE60489 9
- TRE16666 10
- TRE41157 10

2) **Water Pump Repair Kit**
- See Chart

Turbocharger
- TRE26287 10
- TR58898 10

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087

3) **KIT, GROMMET**
- TMX504

4) **Glow Plug**
- TRE502079

(1): Saran engines use TRE55343 Standard flow.

(2): Saran engines may use TRE64354.

(3): Saran Engines.

(4): Threaded Type.

(5): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(6): Always verify Oil Cooler Type.

(7): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs.

(8): (m) R73604.

(9): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(10): Check application for proper usage.

(11): Crankshaft (m) R54501. This Engines model may also use crankshaft TRE54883 60mm Snout; (m) R90825, R120009. PLEASE VERIFY.

(12): For Late 4039 models.

(13): Saran engines, O'ring not included in Gasket Set. Order separately.

(14): These shafts are made for bolt on weights.

(15): O/S

JOHN DEERE 6.303 O'RINGS ON LINER

Engine Series:
300

Engine Model:
6.303

Engine Desc:
To ESN 158,975

Engine Data:
O'rings on Liner

Engine Dimensions:
Bore: 3.86 in / 98 mm Pin Ø: 1.1878 in / (+/-.0001) = 30mm

Block (M):
T24967, T24968

Con Rod (M):
T20007, R81410

Piston (M):
T23481

Wheel Loaders
544

1) **Engine O/H Kit**
- TOK6481

2) **Engine I/F Kit**
- TIK6481
- SPEC SHEET - 6.303

Piston-Liner Kit
- TPLK481

Consists of:
- a) TT23481
- b) TAR70633
- c) TT23482
- d) TAR51902
- e) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

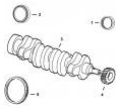
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



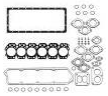
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574 [1]

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE38568

2) **Head Gasket Set**
- TRE38571

3) **Head Gasket**
- TR98462

4) **Oil Pan Gasket**
- TR97344

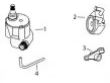
5) **Rocker Cover Gsk**
- TR75728

1) **Bush, Con Rod**
- TT23471 x6

2) **Bolt, Con Rod**
- TR74194 x12 [2]

3) **Camshaft**
- TR82821 [3]

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Pump, Oil Tube**
- TR113752

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

Thermostats
- TAR70601 180° F [4]
- TAR77411 195ºF [4]

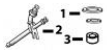
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
-

Without Impeller
- TRE19510

With Impeller
- TMX132



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX506

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with flywheel housing (m) T20300,T22991.

(2): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(3): Threaded Type.

(4): Verify JD parts manual.

JOHN DEERE 6.303 O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
6.303

Engine Desc:
From ESN 158,976

Engine Data:
O'rings on Block

Engine Dimensions:
Bore: 3.86 in / 98 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Block (M):
R53260, R55035, R55351, R72970, R79280, T32346

Con Rod (M):
T20007, R81410

Piston (M):
T23481

Farm Tractors
3420

Skidders
540

Wheel Loaders
544

1) **Engine O/H Kit**
- TOK6591

2) **Engine I/F Kit**
- TIK6591
- SPEC SHEET - 6.303

Piston-Liner Kit
- TAR71591

Consists of:
- a) TT23481
- b) TAR70633
- c) TT23482
- d) TT32340
- e) TAR71617
- f) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

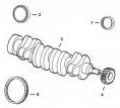
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574 [1]

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

1) **O/H Gasket Set**
- TRE38568

2) **Head Gasket Set**
- TRE38571

3) **Head Gasket**
- TR98462

4) **Oil Pan Gasket**
- TR97344

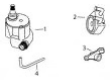
5) **Rocker Cover Gsk**
- TR75728

1) **Bush, Con Rod**
- TT23471 x6

2) **Bolt, Con Rod**
- TR74194 x12 [2]

3) **Camshaft**
- TR82821 [3]

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Pump, Oil Tube**
- TR113752

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

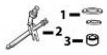
Thermostats
- TAR70601 180° F [4]
- TAR77411 195ºF [4]

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19510

With Impeller
- TMX132



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX506

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Do not use with flywheel housing (m) T20300,T22991.

(2): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(3): Threaded Type.

(4): Verify JD parts manual.

JOHN DEERE 6.329 SMALL PIN, O'RINGS ON LINER

Engine Series:
300

Engine Model:
6.329

Engine Desc:
To ESN 277,548

Engine Data:
O'rings on Liner Small Pin

Engine Info:
6 Cyl, Block (m) T24968

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Con Rod (M):
T20007, R81410

Piston (M):
RE53265, T30015, R51451, AR78310

Farm Tractors
3120

Skidders
540A

Cotton Pickers
699

1) **Engine O/H Kit**
- TOK6310

2) **Engine I/F Kit**
- TIK6310
- SPEC SHEET - 6.329

Piston-Liner Kit
- TPLK310

Consists of:
- a) TAR78310
- b) TAR55759
- c) TT26149
- d) TAR51903
- e) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

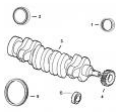
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

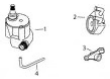
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TT23471 x6

2) **Bolt, Con Rod**
- TR74194 x12 [1]

3) **Camshaft**
- TR82821 [2]

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Pump, Oil Tube**
- TR113752

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

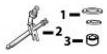
Thermostats
- TAR70601 180° F [3]
- TAR77411 195ºF [3]

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TMX9398

With Impeller
- TMX131



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX506

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(2): Threaded Type.
(3): Verify JD parts manual.

JOHN DEERE 6.329 SMALL PIN, O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
6.329

Engine Desc:
To ESN 277,549

Engine Data:
O'rings on Block
Small Pin

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.1878 in / (+/- .0001) = 30mm

Con Rod (M):
T20007, R81410

Piston (M):
RE53265, T30015, AR78310

Cotton Pickers
499
699

Farm Tractors
3120
4030
4420

Wheel Loaders
544A

Motor Graders
570A

Skidders
540A

1) **Engine O/H Kit**
- TOK6593

2) **Engine I/F Kit**
- TIK6593
- SPEC SHEET - 6.329

Piston-Liner Kit
- TAR71593

Consists of:
- a) TAR78310
- b) TAR55759
- c) TT26149
- d) TR116463
- e) TAR71618
- f) TR51112

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

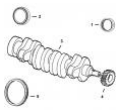
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



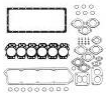
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344 [1]

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

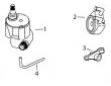
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TT23471 x6

2) **Bolt, Con Rod**
- TR74194 x12 [2]

3) **Camshaft**
- TR82821 [3]

4) **Con Rod**
- TAT18005



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Pump, Oil Tube**
- TR113752

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

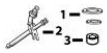
Thermostats
- TAR70601 180° F [4]
- TAR77411 195ºF [4]

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TMX9398

With Impeller
- TMX131



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX506

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): For Tractor Model 4030 order TR97345.

(2): Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(3): Threaded Type.

(4): Verify JD parts manual.

JOHN DEERE 6.329 LARGE PIN, O'RINGS ON BLOCK

Engine Series:
300

Engine Model:
6.329

Engine Desc:
From ESN 277,549

Engine Data:
O'rings on Block
Large Pin

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
RE16495

Piston (M):
AR77762

Cotton Pickers
499

Combines
950
960
4400

Farm Tractors
2840
3130
3530
4030
4425

Wheel Loaders
444
444C
444D
444CH
544A

Motor Graders
570A

Backhoe Loaders
710B

1) **Engine O/H Kit**
- TAT86986

2) **Engine I/F Kit**
- TIK86986
- SPEC SHEET - 6.329

Piston-Liner Kit
- TAR78041

Consists of:
- a) TAR77762
- b) TAR55759
- c) TR125754
- d) TR116463
- e) TAR71618
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

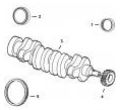
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



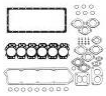
1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)



1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344 [1]

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

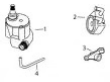
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR55647 x6

2) **Bolt, Con Rod**
- TR74194 x12

3) **Camshaft**
- TR82821 [2]

4) **Con Rod**
- TRE16495 [3]



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Pump, Oil Tube**
- TR113752

5) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

1) **Thermostats**
- TAR70601 180° F [5]
- TAR77411 195ºF [5]
- TRE33705 180ºF [5]

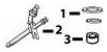
2) **Water Temp Sensor**
- TRE51774 [4]

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TMX9398

With Impeller
- TMX131



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX506

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): For Tractor Model 4030 order TR97345.

(2): Threaded Type.

(3): For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt TR80033.

(4): Check for proper application.

(5): Verify JD parts manual.

Engine Series:
300

Engine Model:
6.359D

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R80034

Piston (M):
RE30250

Please see page **467** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE50784

2) **Engine I/F Kit**
- TIK50784
- SPEC SHEET - 6059D, 6.359D

Piston-Liner Kit
- TRE30250

Consists of:
- a) TRE19282
- b) TRE66820
- c) TR125754
- d) TR116281
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

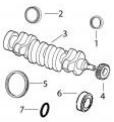
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

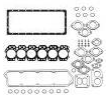
3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

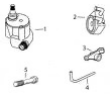
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR55647 x6

2) **Bolt, Con Rod**
- TR80033 x12

3) **Camshaft**
- TR82821 3

4) **Con Rod**
- TRE16495



1) **Pump, Oil**
- TRE55343 2

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973

4) **Pump, Oil Tube**
- TR113752

5) **Cyl Hd Cap Screw**
- TR85363 x26 4

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) Insert, Valve In
- TR73064 Std.

2) Insert, Valve Ex
- TR51734 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring Valve
- TR87627

1) **Thermostat**
- TAR48675 180° F 1

2) **Water Temp Sensor**
- TRE51774 6

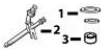
1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

Water Pump
- TRE31600 5
- TRE97717 6

Transmission Oil Pump
- TAL120106
- TAL68094



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR89564

3) **Kit, Grommet**
- TMX506

4) **Cap**
- TAT27622
- TAR85618

5) **Washer**
- TT29539

6) **Tube Nut**
- TR51937

(1): Saran engines may use TRE64354.

(2): Some Engines Models may use High Capacity Pump, Oil TRE65580.

(3): Threaded Type.

(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): Check serial number for proper application.

(6): Check for proper application.

JOHN DEERE 6059D LITER DESIGNATED

Engine Series:
300

Engine Model:
6059D

Engine Desc:
Liter Designated

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R80034

Piston (M):
RE30250

Farm Tractors
2955
3155
3155TSS
3255
3640
3650

Cotton Pickers
9900
9910
9920

Wheel Loaders
444D

Motor Graders
570B

1) **Engine O/H Kit**
- TRE50784

2) **Engine I/F Kit**
- TIK50784
- SPEC SHEET - 6059D, 6.359D

Piston-Liner Kit
- TRE30250

Consists of:
- a) TRE19282
- b) TRE66820
- c) TR125754
- d) TR116281
- e) TAR65507
- f) TM41029

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

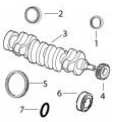
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

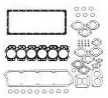
3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

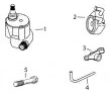
7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR55647 x6

2) **Bolt, Con Rod**
- TR80033 x12

3) **Camshaft**
- TR82821 7

4) **Con Rod**
- TRE16495



1) **Pump, Oil**
- TRE55343 2

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973 5

4) **Pump, Oil Tube**
- TR113752

5) **Cyl Hd Cap Screw**
- TR85363 X26 1

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 4

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 4

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070 4

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

1) **Thermostat**
- TAR48675 180° F 3

2) **Water Temp Sensor**
- TRE51774 9

1) **Fuel Transfer Pump**
- TRE42211
- TRE38009 6

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

Water Pump
- TAR97708U 8
- TRE16666 9
- TAR92641 9
- TRE31600 10
- TAR97717 10

Transmission Oil Pump
- TAL120106
- TAL68094

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE36936

3) **KIT, GROMMET**
- TMX506

4) **Glow Plug**
- TRE502079

(1): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(2): Some Engines Models may use High Capacity Pump, Oil TRE65580.

(3): Saran engines may use TRE64354.

(4): Helicoidal Gears.

(5): To ESN 379968.

(6): Saran Engines.

(7): Threaded Type.

(8): (m) R73604.

(9): Check application for proper usage.

(10): Check serial number for proper application.

JOHN DEERE 6.359T

Engine Series:
300

Engine Model:
6.359T

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R80032, R113612

Piston (M):
RE22678, RE19278

Combines
9400

Cotton Pickers
7445
7484
9930

Farm Tractors
3140C
3540
3550
4050
7200

Backhoe Loaders
710B
710C

Wheel Loaders
444D
544E
544EH
544G

1) **Engine O/H Kit**
- TRE50783

2) **Engine I/F Kit**
- TIK50783
- SPEC SHEET - 6059T, 6.359T

Piston-Liner Kit
- TRE33115

Consists of:
- a) TRE19278
- b) TRE66820
- c) TR124230
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

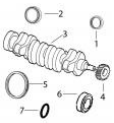
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

7) **Gasket Thermostat Housing**
- TT20219

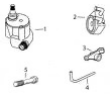
1) **Bush, Con Rod**
- TR57451 x6

2) **Bolt, Con Rod**
- TR80033 x12

3) **Camshaft**
- TR82821 6

4) **Con Rod**
- TRE58347

5) **Kit, Piston Pin**
- TRE63913 x6



1) **Pump, Oil**
- TRE65580 3

2) **Oil Cooler**
- TRE31929

3) **Rocker Arm**
- TRE31973 5

4) **Pump, Oil Tube**
- TR113752

5) **Cyl Hd Cap Screw**
- TR85363 X26 1

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR83071 Std.
- TR89223 0.003
- TR89224 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003 4
- TR79626 0.015 4

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

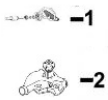
1) **Thermostat**
- TAR48675 180° F 2

2) **Water Temp Sensor**
- TRE51774 7

3) **Water Temp Sensor**
- TRE52722 7

1) **Fuel Transfer Pump**
- TRE42211

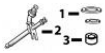
2) **Fuel Pump Gasket**
- TR27285



Water Pump Repair Kit
- See Chart

Water Pump
- TAR97717 7

Transmission Oil Pump
- TAL120106



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX506

(1): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2): Saran engines may use TRE64354.
(3): Some Engines Models may use Standard Capacity Pump, Oil TRE55343.
(4): Do not use 45 Degrees Valves with RE56545 Head.
(5): To ESN 379968.
(6): Threaded Type.
(7): Check for proper application.

JOHN DEERE 6059T LITER DESIGNATED

Engine Series:
300

Engine Model:
6059T

Engine Desc:
Liter Designated

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R80032

Piston (M):
RE22678

Farm Tractors
3140C
6600
7200

Cotton Pickers
7445
7484
9930

Combines
9400

Wheel Loaders
444D
544E
544EH
544G

Backhoe Loaders
710B
710C

Motor Grader
570B

Skidder
540E
540G
548E
548G

1) **Engine O/H Kit**
- TRE50783

2) **Engine I/F Kit**
- TIK50783
- SPEC SHEET - 6059T, 6.359T

Piston-Liner Kit
- TRE33115

Consists of:
- a) TRE19278
- b) TRE66820
- c) TR124230
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

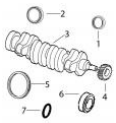
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TAT22562

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR57451 x6

2) **Bolt, Con Rod**
- TR80033 x12

3) **Camshaft**
- TR82821 6

4) **Con Rod**
- TRE58347

5) **Kit, Piston Pin**
- TRE63913 x6

1) **Pump, Oil**
- TRE65580 3

2) **Oil Cooler**
- TRE31929

3) **Pump, Oil Tube**
- TR113752

4) **Cyl Hd Cap Screw**
- TR85363 x26 1

1) **Lower Gear**
- TAT24252 4

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 4

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070 4

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

1) **Fuel Transfer Pump**
- TRE42211
- TRE38009 5

2) **Thermostat**
- TAR48675 180° F 2

3) **Water Temp Sensor**
- TRE51774 8

4) **Water Temp Sensor**
- TRE52722 8

Water Pump Repair Kit
- See Chart

Water Pump
- TAR97708U 7
- TRE16666 8
- TRE41157
- TAR92641 8
- TAR97717 8

Transmission Oil Pump
- TAL120106 8

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087

3) **KIT, GROMMET**
- TMX506

4) **Glow Plug**
- TRE502079

(1): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2): Saran engines may use TRE64534.
(3): Some Engine Models may use Standard Capacity Pump, Oil TRE55343.
(4): Helicoidal Gears.
(5): Saran Engines.
(6): Threaded Type.
(7): (m) R73604.
(8): Check for proper application.

JOHN DEERE 6.414D LARGE PIN

Engine Series:
300

Engine Model:
6.414D

Engine Desc:
Large Pin

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.62 in / 41 mm

Wheel Loaders
544C

Engine Model
Marine
Ag

1) **Engine O/H Kit**
- TOK3694

2) **Engine I/F Kit**
- TIK3694
- SPEC SHEET - 6068D, 6.414D

Piston-Liner Kit
- TRE28966

Consists of:
- a) TRE28919
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

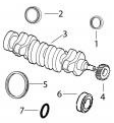
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft** 1
- TRE45517

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR57451 x6

2) **Bolt, Con Rod** 4
- TR74195 x12

3) **Camshaft** 2
- TR82821

4) **Kit, Piston Pin**
- TRE63913 x6

5) **Con Rod**
- TRE53716

1) **Pump, Oil**
- TRE65580

2) **Rocker Arm**
- TRE31973

3) **Cyl Hd Cap Screw** 3
- TR85363 x26

4) **Tensioner Belt**
- TAL110621

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR79623 Std.
- TR79628 0.003
- TR79629 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

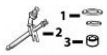
Thermostat
- TAR48675 180° F

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19510

With Impeller
- TRE11348



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX506

(1): Crankshaft (m) R104523.

(2): Threaded Type.

(3): From ESN 137165 The Cylinder Head Cap Screw is 4.5 in (114 mm) in Length.

(4): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

JOHN DEERE 6068D LITER DESIGNATED, LARGE PIN

Engine Series:
300

Engine Model:
6068D

Engine Desc:
Large Pin Liter Designated

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.62 in / 41 mm

Farm Tractors
6506

Renault Tractors
Ares 630 RX
Ares 630 RZ
Ares 640 RZ
Ares 710 RZ
Ares 720 RZ
Ares 735 RZ
Ares 815 RZ
Ares 825 RZ

Engine Model
Marine
Ag

1) **Engine O/H Kit**
- TOK3694

2) **Engine I/F Kit**
- TIK3694
- SPEC SHEET - 6068D, 6.414D

Piston-Liner Kit
- TRE28966

Consists of:
- a) TRE28919
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

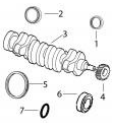
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TRE45517 — 3

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR57451 x6

2) **Bolt, Con Rod**
- TR74195 x12 — 5

3) **Camshaft**
- TR82821 — 2

4) **Kit, Piston Pin**
- TRE63913 x6

5) **Con Rod**
- TRE53716

1) **Pump, Oil**
- TRE65580

2) **Cyl Hd Cap Screw**
- TR85363 X26 — 4

3) **Tensioner Belt**
- TAL110621

1) **Lower Gear**
- TAT24252 — 1

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 — 1

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070 — 1

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

Thermostat
- TRE64354 180° F

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- Without Impeller
- TRE19510

With Impeller
- TRE11348

Water Pump
- TRE41157
- TRE16666 — 6

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087

3) **KIT, GROMMET**
- TMX506

4) **Glow Plug**
- TRE502079

(1): Helicoidal Gears.

(2): Threaded Type.

(3): Crankshaft (m) R104523.

(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

(6): Check application for proper usage.

Engine Series:
300

Engine Model:
6.414T

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.62 in / 41 mm

Please see page **468** for a complete list of equipment models.

1) **Engine O/H Kit**
- TOK61614

2) **Engine I/F Kit**
- TIK61614
- SPEC SHEET - 6068T, 6.414T

Piston-Liner Kit
- TRE53073

Consists of:
- a) TRE48469
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

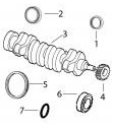
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft** 3
- TRE45517

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR57451 x6

2) **Bolt, Con Rod** 5
- TR74195 x12

3) **Camshaft** 2
- TR82821

4) **Kit, Piston Pin**
- TRE63913 x6

5) **Con Rod**
- TRE53716

1) **Pump, Oil**
- TRE65580

2) **Rocker Arm**
- TRE31973

3) **Cyl Hd Cap Screw** 4
- TR85363 x26

4) **Tensioner Belt**
- TAL110621

1) **Lower Gear**
- TAT24252

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070

Valve, Intake
- TR83071 Std.
- TR89223 0.003
- TR89224 0.015

Valve, Exhaust
- TR79624 Std.
- TR79625 0.003
- TR79626 0.015

1) **Insert, Valve In**
- TR73064 Std.

2) **Insert, Valve Ex**
- TR51734 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring Valve**
- TR87627

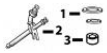
1) **Thermostat**
- TAR48675 180° F

2) **Water Temp Sensor** 6
- TRE51774

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart



1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE37503

3) **KIT, GROMMET**
- TMX506

(1): Do not use 45 Degree Valves with RE56545 Head.

(2): Threaded Type.

(3): Crankshaft (m) R104523.

(4): From ESN 137165 The Cylinder Head Cap Screw is 4.5 in (114 mm) in Length.

(5): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

(6): Check for proper application.

Engine Series:
300

Engine Model:
6068T

Engine Desc:
Liter Designated

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.62 in / 41 mm

Please see page **469** for a complete list of equipment models.

1) **Engine O/H Kit**
- TOK61614

2) **Engine I/F Kit**
- TIK61614
- SPEC SHEET - 6068T, 6.414T

Piston-Liner Kit
- TRE53073

Consists of:
- a) TRE48469
- b) TRE66820
- c) TR124230
- d) TR80500
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

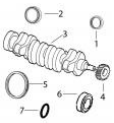
Use 6

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TAR97517 Std.
- TAR97653 0.010
- TAR97654 0.020
- TAR97655 0.030

Use 6



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TRE45517 [3]

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR28811 (129T)
- TR114282 (142T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244

1) **O/H Gasket Set**
- TRE501580

2) **Head Gasket Set**
- TRE38852

3) **Head Gasket**
- TR114157

4) **Oil Pan Gasket**
- TR97344

5) **Rocker Cover Gsk**
- TR75728

6) **Gasket, Turbo Mount**
- TR89879

7) **Gasket Thermostat Housing**
- TT20219

1) **Bush, Con Rod**
- TR57451 x6

2) **Bolt, Con Rod**
- TR74195 x12 [5]

3) **Camshaft**
- TR82821 [2]

4) **Kit, Piston Pin**
- TRE63913 x6

1) **Pump, Oil**
- TRE65580

2) **Cyl Hd Cap Screw**
- TR85363 X26 [4]

3) **Tensioner Belt**
- TAL110621

1) **Lower Gear**
- TAT24252 [1]

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 [1]

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x12

6) **Cam. Gear**
- TT20070 [1]

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

1) **Thermostat**
- TRE33705 180° F

2) **Water Temp Sensor**
- TRE51774 [6]

3) **Water Temp Sensor**
- TRE52722 [6]

4) **Thermostat Cover Gsk**
- TT20215

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

Water Pump
- TRE41157 [6]
- TRE16666 [6]

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TRE38087

3) **KIT, GROMMET**
- TMX506

4) **Glow Plug**
- TRE502079

(1): Helicoidal Gears.

(2): Threaded Type.

(3): Crankshaft (m) R104523.

(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

(6): Check application for proper usage.

JOHN DEERE 4.270 TO ESN 280,000 SEE BLOCK

Engine Series:
400

Engine Model:
4.270

Engine Data:
To ESN 280,000

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R46350, R46430, R40910

Con Rod (M):
R26047, R58880, R66923

Farm Tractors
3020

Backhoe Loaders
500
500A

1) **Engine O/H Kit**
- TRG17898

2) **Engine I/F Kit**
- TIK17898
- SPEC SHEET - 4.270

Piston-Liner Kit
- TRE23170

Consists of:
- a) TRE23172
- b) TAR55630
- c) TR44161
- d) TR40615
- e) TAR65507
- f) TH80753

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 4

Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Use 3, Order Qty: 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 4

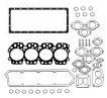
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TAR40485 [1]

4) **Crankshaft, Gear**
- TR26049

5) **Ring Gear**
- TR28811 (129T)



1) **O/H Gasket Set**
- TAR53033

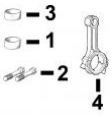
2) **Head Gasket Set**
- TAR53032

3) **Head Gasket**
- TR45616

4) **Oil Pan Gasket**
- TR71917

5) **Rear Cover Gasket**
- TR26058

6) **Exhaust Manifold Gsk**
- TR83020

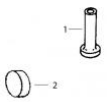


1) **Bush, Con Rod**
- TR30939 x4

2) **Bolt, Con Rod**
- TR66452 x8

3) **Bushing, Cam**
- TR46903 x3

4) **Con Rod**
- TAR70910



1) **Cam Follower**
- TR52773 x8

2) **Plug, Camshaft**
- TR26115

Valve, Intake
- TR26124 Std. [2]
- TR44174 Std. [3]

Valve, Exhaust
- TR26123 Std. [2]
- TR44175 Std. [3]

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Lock, Valve**
- TB367R x16

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TR28654

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

Fuel Transfer Pump
- TAR53567

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Water Pump
- TAR45332 [4]

(1): New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to 2.835 in. (72.0009 mm).
(2): To ESN 157,001.
(3): ESN 157,002 – 280,000.
(4): Check application for proper usage

JOHN DEERE 4.270 TO ESN 280,000

Engine Series:
400

Engine Model:
4.270

Engine Data:
To ESN 280,000

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R26160, R32020, R40850

Con Rod (M):
R26047, R58880, R66923

Backhoe Loaders
500
500A
500B
500C
510

Farm Tractors
3010
3020

1) **Engine O/H Kit**
- TRG17899
- TRG17899HC

2) **Engine I/F Kit**
- TIK17899
- TIK17899HC
- SPEC SHEET - 4.270

Piston-Liner Kit
- TRE23173
- TRE23173HC

Consists of:
- a) TRE23172
- TRE23172HC [2]
- b) TAR55630
- TAR65502 [3]
- c) TR44161
- d) TR32050
- e) TAR40155
- f) TH80753

Main Bearing
- TAR49243 Std.
- TAR49245 0.010
- TAR49246 0.020
- TAR49247 0.030

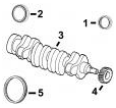
Use 4

Thrust Bearing
- TAR49242 Std.
- TAR49238 0.010
- TAR49239 0.020
- TAR49240 0.030

Use 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 4



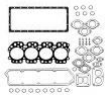
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TAR40485 [1]

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



1) **O/H Gasket Set**
- TAR53033

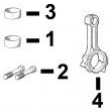
2) **Head Gasket Set**
- TAR53032

3) **Head Gasket**
- TR45616

4) **Oil Pan Gasket**
- TR71917

5) **Rear Cover Gasket**
- TR26058

6) **Exhaust Manifold Gsk**
- TR83020

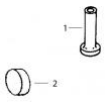


1) **Bush, Con Rod**
- TR30939 x4

2) **Bolt, Con Rod**
- TR66452 x8

3) **Bushing, Cam**
- TR46903 x3

4) **Con Rod**
- TAR70910



1) **Cam Follower**
- TR26342 x8

2) **Plug, Camshaft**
- TR26115

Valve, Intake
- TR26124 Std. To ESN 157,001
- TR44174 Std. ESN 157,002-280,000

Valve, Exhaust
- TR26123 Std. To ESN 157,001
- TR44175 Std. ESN 157,002-280,000

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Lock, Valve**
- TB367R x16

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TR28654

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TRE42211
- TAR53567

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Water Pump
- TAR45332 [4]

(1): New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to 2.835 in. (72.0009 mm).
(2): This piston uses ring set TAR65502.
(3): Used with TRE23172HC piston.
(4): Check application for proper usage

JOHN DEERE 4.270 TO ESN 280,000 EARLY POWER BOOSTER

Engine Series:
400

Engine Model:
4.270

Engine Desc:
Early Power Booster

Engine Data:
To ESN 280,000

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R26160, R32020, R40850

Con Rod (M):
R26047, R58880, R66923

Farm Tractors
3010
3020

Backhoe Loaders
500
500A
500B
500C
510

1) **Engine O/H Kit**
- TOK4163

2) **Engine I/F Kit**
- TIK4163
- SPEC SHEET - 4.270

Piston-Liner Kit
- TPLK163

Consists of:
- a) TRE23163
- b) TAR65502
- c) TR44161
- d) TR32050
- e) TAR40155
- f) TH80753

Main Bearing
- TAR49243 Std.
- TAR49245 0.010
- TAR49246 0.020
- TAR49247 0.030

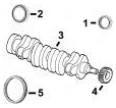
Use 4

Thrust Bearing
- TAR49242 Std.
- TAR49238 0.010
- TAR49239 0.020
- TAR49240 0.030

Use 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 4



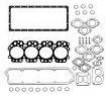
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TAR40485 [1]

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



1) **O/H Gasket Set**
- TAR53033

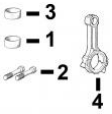
2) **Head Gasket Set**
- TAR53032

3) **Head Gasket**
- TR45616

4) **Oil Pan Gasket**
- TR71917

5) **Rear Cover Gasket**
- TR26058

6) **Exhaust Manifold Gsk**
- TR83020



1) **Bush, Con Rod**
- TR30939 x4

2) **Bolt, Con Rod**
- TR66452 x8

3) **Bushing, Cam**
- TR46903 X3

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR26342 x8

2) **Plug, Camshaft**
- TR26115

3) **Head Bolt Kit**
- TMX364 [2]

Valve, Intake
- TR26124 Std. To ESN 157,001
- TR44174 Std. ESN 157,002-280,000

Valve, Exhaust
- TR26123 Std. To ESN 157,001
- TR44175 Std. ESN 157,002-280,000

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Lock, Valve**
- TB367R x16

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TR28654

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TRE42211
- TAR53567

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Water Pump
- TAR45332 [3]

(1): New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to 2.835 in. (72.0009 mm).
(2): TMX364 Consists of: TR88042 x4, TR88043 x3, TR88044 x6, TR88045 x5.
(3): Check application for proper usage

JOHN DEERE 4.270 FROM ESN 280,001

Engine Series:
400

Engine Model:
4.270

Engine Data:
From ESN 280,001

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R40700, R47520, R48430, R50610, R72127

Con Rod (M):
R26047, R58880, R66923

Farm Tractors
3020

Backhoe Loaders
500A
500B
500C
510

1) **Engine O/H Kit**
- TRG17900
- TRG17900HC

2) **Engine I/F Kit**
- TIK17900
- TIK17900HC
- SPEC SHEET - 4.270

Piston-Liner Kit
- TRE23165
- TRE23165HC

Consists of:
- a) TRE23168
- TRE23163HC [2]
- b) TAR55630
- TAR65502 [3]
- c) TR44161
- d) TR40615
- e) TAR65507
- f) TH80753

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 4

Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

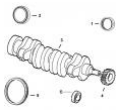
Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Use 3, Order Qty: 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 4



1) **Front Seal**
- TAR49025

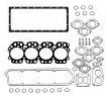
2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TAR40485

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

6) **Rear Gear**
- TR63326

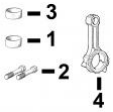


1) **O/H Gasket Set**
- TAR53035

2) **Head Gasket Set**
- TAR53034

3) **Head Gasket**
- TR48292

4) **Oil Pan Gasket**
- TR71917



1) **Bush, Con Rod**
- TR30939 x4

2) **Bolt, Con Rod**
- TR66452 x8

3) **Bushing, Cam**
- TR46903 x3

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR52773 x8

2) **Plug, Camshaft**
- TR26115

3) **Head Bolt Kit**
- TMX364 [1]

Valve, Intake
- TR43883 Std.
- TR45003 0.003
- TR45004 0.015

Valve, Exhaust
- TR43679 Std.
- TR43787 0.003
- TR43788 0.015

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TRE42211

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Water Pump
- TAR45332 [4]

(1): TMX364 Consists of: TR88042 x4, TR88043 x3, TR88044 x6, TR88045 x5.

(2): This piston uses Ring Set TAR65502.

(3): Used with TRE23163HC piston.

(4): Check application for proper usage

JOHN DEERE 6.404D TO ESN 214,999 SEE BLOCK

Engine Series:
400

Engine Model:
6.404D

Engine Data:
To ESN 214,999

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm (1)

Block (M):
R26070, R33180, R34340, R40890, R40900

Con Rod (M):
R26047, R58880, R66923

Farm Tractors
4010
4020

1) **Engine O/H Kit**
- TRG17901
- TRG17901HC

2) **Engine I/F Kit**
- TIK17901
- TIK17901HC
- SPEC SHEET - 6.404D

Piston-Liner Kit
- TRE23173
- TRE23173HC

Consists of:
- a) TRE23172
- TRE23172HC [6]
- b) TAR55630
- TAR65502 [7]
- c) TR44161
- d) TR32050
- e) TAR40155
- f) TH80753

Main Bearing
- TAR49243 Std.
- TAR49245 0.010
- TAR49246 0.020
- TAR49247 0.030

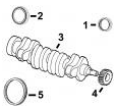
Use 6

Thrust Bearing
- TAR49242 Std.
- TAR49238 0.010
- TAR49239 0.020
- TAR49240 0.030

Use 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



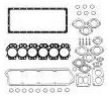
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 [8] [5]

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



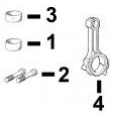
1) **O/H Gasket Set**
- TAR53626

2) **Head Gasket Set**
- TAR53625

3) **Head Gasket**
- TR45615

4) **Oil Pan Gasket**
- TR71918

5) **Gasket**
- TR49866



1) **Bush, Con Rod**
- TR30939 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR26342 x12

2) **Plug, Camshaft**
- TR26115

3) **O'ring, Oil Cooler**
- TR47153

Valve, Intake
- TR26124 Std. To ESN 82,801
- TR44174 Std. ESN 82,802-214,999

Valve, Exhaust
- TR26123 Std. To ESN 82,801
- TR44175 Std. ESN 82,802-214,999

1) Insert, Valve In
- TR43680 Std.

2) Insert, Valve Ex
- TR43681 Std.

1) Lock, Valve
- TB367R x16

1) Spring, Valve
- TR26125

2) Guide, Valve
- TR28654

3) O'ring, Valve
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TAR53567 [2]
- TRE42211 [3]
- TAR49771 [4]

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Pump, Oil, Quad Transmission
- TAR41949 For Tractors 4010, 4020

Water Pump
- TAR45332 [9]

(1): Original Block.

(2): To ESN 82,801.

(3): ESN 82,802-422,365.

(4): From ESN 422,366.

(5): New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to 2.835 in. (72.0009 mm). Extra bolt holes in the rear palm of the crankshaft need to be plugge with allen head screws and tread sealer / locker. TRE53422 will require front key TR116311 for the front damper.

(6): This piston uses ring set TAR65502.

(7): Used with TRE23172HC piston.

(8): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(9): Check application for proper usage

JOHN DEERE 6.404D TO ESN 214,999

Engine Series:
400

Engine Model:
6.404D

Engine Data:
To ESN 214,999

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm (1)

Block (M):
R40930

Con Rod (M):
R26047, R58880, R66923

Farm Tractors
4010
4020

1) **Engine O/H Kit**
- TRG17902

2) **Engine I/F Kit**
- TIK17902
- SPEC SHEET - 6.404D

Piston-Liner Kit
- TRE23170

Consists of:
- a) TRE23172
- b) TAR55630
- c) TR44161
- d) TR40615
- e) TAR65507
- f) TH80753

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

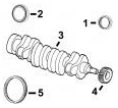
Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Use 3, Order Qty: 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 6 5

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

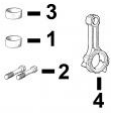
1) **O/H Gasket Set**
- TAR53626

2) **Head Gasket Set**
- TAR53625

3) **Head Gasket**
- TR45615

4) **Oil Pan Gasket**
- TR71918

5) **Gasket**
- TR49866



1) **Bush, Con Rod**
- TR30939 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR52773 x12

2) **Plug, Camshaft**
- TR26115

3) **O'ring, Oil Cooler**
- TR47153

Valve, Intake
- TR26124 Std. To ESN 157,001
- TR44174 Std. ESN 157,002-280,000

Valve, Exhaust
- TR26123 Std. To ESN 82,801
- TR44175 Std. ESN 82,802-214,999

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Lock, Valve**
- TB367R x24

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TR28654

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TAR53567 2
- TRE42211 3
- TAR49771 4

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Pump, Oil, Quad Transmission
- TAR41949 For Tractors 4010, 4020

Water Pump
- TAR45332 7

(1): Original Block.

(2): To ESN 82,801.

(3): ESN 82,802 – 422,365.

(4): From ESN 422,366.

(5): New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to 2.835 in. (72.0009 mm). Extra bolt holes in the rear palm of the crankshaft need to be plugge with allen head screws and tread sealer / locker. TRE53422 will require front key TR116311 for the front damper.

(6): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(7): Check application for proper usage

JOHN DEERE 6.404D TO ESN 214,999 EARLY POWER BOOST

Engine Series:
400

Engine Model:
6.404D

Engine Desc:
Early Power Booster

Engine Data:
To ESN 214,999

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R26070, R33180, R34340, R40890, R40900

Con Rod (M):
R26047, R58880, R66923

Farm Tractors
4010
4020

1) **Engine O/H Kit**
- TOK6163

2) **Engine I/F Kit**
- TIK6163
- SPEC SHEET - 6.404D

Piston-Liner Kit
- TPLK163

Consists of:
- a) TRE23163
- b) TAR65502
- c) TR44161
- d) TR32050
- e) TAR40155
- f) TH80753

Main Bearing
- TAR49243 Std.
- TAR49245 0.010
- TAR49246 0.020
- TAR49247 0.030

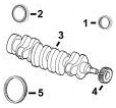
Use 6

Thrust Bearing
- TAR49242 Std.
- TAR49238 0.010
- TAR49239 0.020
- TAR49240 0.030

Use 1

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



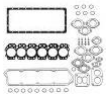
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 5 4

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



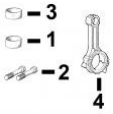
1) **O/H Gasket Set**
- TAR53626

2) **Head Gasket Set**
- TAR53625

3) **Head Gasket**
- TR45615

4) **Oil Pan Gasket**
- TR71918

5) **Gasket**
- TR49866



1) **Bush, Con Rod**
- TR30939 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR26342 x12

2) **Plug, Camshaft**
- TR26115

3) **O'ring, Oil Cooler**
- TR47153

Valve, Intake
- TR26124 Std. To ESN 82,801
- TR44174 Std. ESN 82,802-214,999

Valve, Exhaust
- TR26123 Std. To ESN 82,801
- TR44175 Std. ESN 82,802-214,999

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Lock, Valve**
- TB367R x24

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TR28654

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TAR53567 1
- TRE42211 2
- TAR49771 3

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Pump, Oil, Quad Transmission
- TAR41949 For Tractors 4010, 4020

Water Pump
- TAR45332 6

(1): To ESN 82,801.

(2): ESN 82,802 – 422,365.

(3): From ESN 422,366.

(4): New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to 2.835 in. (72.0009 mm). Extra bolt holes in the rear palm of the crankshaft need to be plugge with allen head screws and tread sealer / locker. TRE53422 will require front key TR116311 for the front damper.

(5): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(6): Check application for proper usage

JOHN DEERE 6.404D ESN 215,000 – 335,845

Engine Series:
400

Engine Model:
6.404D

Engine Data:
215,000 – 335,845

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R40610, R40620, R45950, R47170, R48440

Con Rod (M):
R26047, R58880, R66923

Piston (M):
AR48743

Cotton Pickers
699

Farm Tractors
4000
4010
4020

Backhoe Loaders
600

1) **Engine O/H Kit**
- TRG17903
- TRG17903HC

2) **Engine I/F Kit**
- TIK17903
- TIK17903HC
- SPEC SHEET - 6.404D

Piston-Liner Kit
- TRE23165
- TRE23165HC

Consists of:
- a) TRE23168
- TRE23163HC [6]
- b) TAR55630
- TAR65502 [7]
- c) TR44161
- d) TR40615
- e) TAR65507
- f) TH80753

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

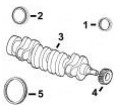
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



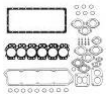
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 [8] [5]

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



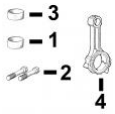
1) **O/H Gasket Set**
- TAR53631

2) **Head Gasket Set**
- TAR53630

3) **Head Gasket**
- TR48291

4) **Oil Pan Gasket**
- TR71918

5) **Rocker Cover Gsk**
- TR49866



1) **Bush, Con Rod**
- TR30939 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR52773 x12

2) **Plug, Camshaft**
- TR26115

3) **O'ring, Oil Cooler**
- TR47153

4) **Camshaft Kit**
- TAR100386

Head Bolt Kit
- TMX365 [1]

Valve, Intake
- TR43883 Std.
- TR45003 0.003
- TR45004 0.015

Valve, Exhaust
- TR43679 Std.
- TR43787 0.003
- TR43788 0.015

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

1) **Fuel Transfer Pump**
- TAR53567 [2]
- TRE42211 [3]
- TAR49771 [4]

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Pump, Oil, Quad Transmission
- TAR41949 For Tractors 4000, 4020

Water Pump
- TAR45332 [9]

(1): TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

(2): To ESN 82,801.

(3): ESN 82,802-422,365.

(4): From ESN 422,366.

(5): TRE53422 will require front key TR116311 for the front damper.

(6): This piston uses Ring Set TAR65502.

(7): Used with TRE23163HC piston.

(8): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(9): Check application for proper usage

JOHN DEERE 6.404D FROM ESN 335,846

Engine Series:
400

Engine Model:
6.404D

Engine Data:
From ESN 335,846

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.50 in / 38 mm

Block (M):
R49470, R49650, R59850, R72128, R87558

Con Rod (M):
R26047, R58880, R66923

Cotton Pickers
699

Farm Tractors
4040
4230

Combines
6600
7700

1) **Engine O/H Kit**
- TRG17897
- TRG17897HC

2) **Engine I/F Kit**
- TIK17897
- TIK17897HC
- SPEC SHEET - 6.404D

Piston-Liner Kit
- TRE23160
- TRE23160HC

Consists of:
- a) TRE23163
- TRE23163HC
- b) TAR65502
- c) TR44161
- d) TR40615
- e) TAR65507
- f) TH80753

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

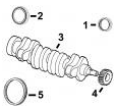
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



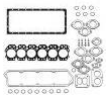
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 6 5

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



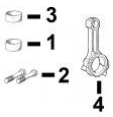
1) **O/H Gasket Set**
- TAR63938

2) **Head Gasket Set**
- TAR63940

3) **Head Gasket**
- TR48291

4) **Oil Pan Gasket**
- TR71918

5) **Rocker Cover Gsk**
- TR49866



1) **Bush, Con Rod**
- TR30939 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR70910

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAR55394

3) **Camshaft Kit**
- TAR100386

4) **Plug, Camshaft**
- TR26115

5) **O'ring, Oil Cooler**
- TR47153

Head Bolt Kit
- TMX365 1

Valve, Intake
- TR43883 Std.
- TR45003 0.003
- TR45004 0.015

Valve, Exhaust
- TR43679 Std.
- TR43787 0.003
- TR43788 0.015

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F

Thermostat Cover
- TAR77411
- TRE33705

1) **Fuel Transfer Pump**
- TAR53567 2
- TRE42211 3
- TAR49771 4
- TAR57264

2) **Fuel Pump Gasket**
- TR27285

Water Pump Repair Kit
- See Chart

1) **Seal, Injector**
- TR60746
- TR48000

2) **Injector, Pencil**
- TAR50781

Pump, Oil, Quad Transmission
- TRE20918 For Tractor 4040

Water Pump
- TAR45332 7

(1): TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

(2): To ESN 82,801.

(3): ESN 82,802-422,365.

(4): From ESN 422,366.

(5): TRE53422 will require front key TR116311 for the front damper.

(6): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(7): Check application for proper usage

JOHN DEERE 6.404T/A TO ESN 335,845

Engine Series:
400

Engine Model:
6.404T/A

Engine Data:
To ESN 335,845

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.61 in / 41 mm

Block (M):
R43310, R45980, R47020, R47110

Combines
4320

Farm Tractors
4520
4620
5440

Wheel Loaders
644
644A

Excavators
690
690A

Compactors
646
646B

1) **Engine O/H Kit**
- TRG21340

2) **Engine I/F Kit**
- TIK21340
- SPEC SHEET - 6.404T-A

Piston-Liner Kit
- TAR51798

Consists of:
- a) TAR50624
- b) TAR51741
- c) TR41425
- d) TR40615
- e) TAR65507
- f) TR54114

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

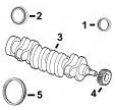
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 [7] [3]

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

1) **O/H Gasket Set**
- TAR53094

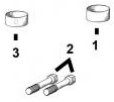
2) **Head Gasket Set**
- TAR63270

3) **Head Gasket**
- TR48291

4) **Oil Pan Gasket**
- TR71918

5) **Rocker Cover Gsk**
- TR49866

6) **Gasket Intake Manifold**
- TR50397



1) **Bush, Con Rod**
- TR42173 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAR55394 [4]
- TAT25038 [5]

3) **Plug, Camshaft**
- TR26115

4) **O'ring, Oil Cooler**
- TR47153

Head Bolt Kit
- TMX365 [1]

Valve, Intake
- TR43883 Std. [2]
- TR45003 0.003
- TR45004 0.015

Valve, Exhaust
- TR43679 Std.
- TR43787 0.003
- TR43788 0.015

1) **Insert, Valve In**
- TR43680 Std.

2) **Insert, Valve Ex**
- TR43681 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

Thermostat
- TR36846 180° F
- TAR48675 x2 180° F [6]
- TAR77411 x1 195° F [6]

Fuel Transfer Pump
- TAR49771

Water Pump Repair Kit
- See Chart

(1): TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.
(2): Use TR43914 Std (30 Degree Angle) on ESN 245,547 – 335,845.
(3): TRE53422 will require front key TR116311 for the front damper.
(4): For T Engines.
(5): For A Engines.
(6): Check for proper application.
(7): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

JOHN DEERE 6.404T/A FROM ESN 335,846

Engine Series:
400

Engine Model:
6.404T/A

Engine Data:
From ESN 335,846

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.25 in / 108 mm Pin Ø: 1.61 in / 41 mm

Block (M):
R49470, R49650, R59850, R72128, R87558

Combines
4320
6600
7700

Farm Tractors
4430
4630
5440

Excavators
690B

Feller Bunchers Log Loaders
693C

Skidders
740

1) **Engine O/H Kit**
- TRG17892
- TRG17892HC

2) **Engine I/F Kit**
- TIK17892
- TIK17892HC
- SPEC SHEET - 6.404T-A

Piston-Liner Kit
- TAR63272
- TAR63272HC

Consists of:
- a) TAR54552
- TAR54552HC
- b) TAR51741
- c) TR41425
- d) TR40615
- e) TAR65507
- f) TR54114

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

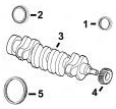
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



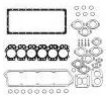
1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 5 2

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)



1) **O/H Gasket Set**
- TAR63269

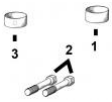
2) **Head Gasket Set**
- TAR63270

3) **Head Gasket**
- TR48291

4) **Oil Pan Gasket**
- TR71918

5) **Rocker Cover Gsk**
- TR49866

6) **Gasket Intake Manifold**
- TR50397



1) **Bush, Con Rod**
- TR42173 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAR55394 3
- TAT25038 4

3) **Plug, Camshaft**
- TR26115

4) **O'ring, Oil Cooler**
- TR47153

Head Bolt Kit
- TMX365 1

Valve, Intake
- TR50358 Std.
- TR55055 0.003
- TR55057 0.015

Valve, Exhaust
- TR50357 Std.
- TR55056 0.003
- TR55058 0.015

1) **Insert, Valve In**
- TR78702 Std.
- TR82508 0.010

2) **Insert, Valve Ex**
- TR50356 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Guide, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

Thermostat
- TAR48675 180° F

Fuel Transfer Pump
- TAR57264

1) **Water Pump Repair Kit**
- See Chart

2) **Water Pump**
- TRE20023 6

(1): TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.
(2): TRE53422 will require front key TR116311 for the front damper.
(3): For T Engines.
(4): For A Engines.
(5): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.
(6): Check application for proper usage.

JOHN DEERE 6.466D

Engine Series:
400

Engine Model:
6.466D

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.61 in / 41 mm

Con Rod (M):
R66922, R58882, R41423

Farm Tractors
4050
4240

Combines
6620

1) **Engine O/H Kit**
- TRG18846

2) **Engine I/F Kit**
- TIK18846
- SPEC SHEET - 6.466D

Piston-Liner Kit
- TAR83610

Consists of:
- a) TAR100442
- b) TAR87753
- c) TR41425
- d) TAR63060
- e) TR98850
- f) TR54114

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

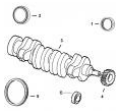
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR45723 Std.
- TAR46396 0.010
- TAR46397 0.020
- TAR46398 0.030

Use 6



1) **Front Seal**
- TAR49025

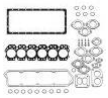
2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 [6] [4]

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

6) **Rear Gear**
- TR63326

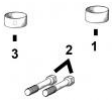


1) **O/H Gasket Set**
- TAR100638

2) **Head Gasket Set**
- TAR100632

3) **Head Gasket**
- TRE47336

4) **Oil Pan Gasket**
- TR71918



1) **Bush, Con Rod**
- TR42173 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAR55394

3) **Plug, Camshaft**
- TR26115

4) **O'ring, Oil Cooler**
- TR47153

Head Bolt Kit
- TMX365 [2]
- TMX366 [3]

Valve, Intake
- TR43883 Std.
- TR45003 0.003
- TR45004 0.015

Valve, Exhaust
- TR43679 Std.
- TR43787 0.003
- TR43788 0.015

1) Insert, Valve In
- TR43680 Std.

2) Insert, Valve Ex
- TR43681 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Guide, Valve
- TRE11410

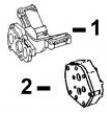
3) O'ring, Valve
- TR87627

Thermostat
- TAR48675 180° F

Fuel Transfer Pump
- TRE38009
- TAR57264

Water Pump Repair Kit
- See Chart

Water Pump
- TRE55985 [5]
- TRE55986 [5]



1) **Pump, Oil**
- TRE60622 [7]

2) **Pump, Oil, Quad Transmission**
- TRE20918 For Tractors 4240, 4050

(1): Shape, Conrod Bushing.

(2): TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7. * With To ESN 318403.

(3): TMX366 Consists of: TR88043 x11, TR88044 x8, TR88045 x7. ** With From ESN 318404.

(4): TRE53422 will require front key TR116311 for the front damper.

(5): Must check proper application. (m) R71224, (m) R83561.

(6): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(7): Late style, crank driven pump, uses a 1 piece elbow and screen that bolts to pump. Early pumps have a pickup screen that bolts directly to the pump (elbow is part of the pump).When replacing the early pump, you will need the dealer items RE42653 intake tube & R100569 gasket.

JOHN DEERE 6.466A/T CON ROD (M): R57303, R67320

Engine Series:
400

Engine Model:
6.466T

Engine Data:
To ESN 253,372

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.85 in / 47 mm

Con Rod (M):
R57303, R67320

Farm Tractors
4440
4640
4840
6622
8430
8440
8450

Forage Cane Harvesters
5720

Combines
6620
7720
8820

Cotton Pickers
9940

Compactors
646C

Skidders
740A

Wheel Loaders
644D

Scrapers
762A

1) **Engine O/H Kit**
- TRG18845
- TRG18845HC

2) **Engine I/F Kit**
- TIK18845
- TIK18845HC
- SPEC SHEET - 6.466A-T

Piston-Liner Kit
- TAR72079
- TAR72079HC

Consists of:
- a) TAR93629
- TAR93629HC
- b) TRE48380
- c) TR57771
- d) TAR63060
- e) TE1343FN
- f) TE1343FN

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

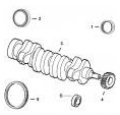
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR73277 Std.
- TAR73279 0.010
- TAR73280 0.020
- TAR73281 0.030

Use 6



1) **Front Seal**
- TAR49025

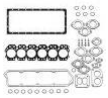
2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 8 4

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

6) **Rear Gear**
- TR63326



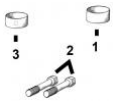
1) **O/H Gasket Set**
- TAR98845

2) **Head Gasket Set**
- TAR98851

3) **Head Gasket**
- TRE47336

4) **Oil Pan Gasket**
- TR71918

5) **Gasket Intake Manifold**
- TR50397



1) **Bush, Con Rod**
- TR60724 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAT25038 3

3) **Camshaft Kit**
- TAR100385

4) **Plug, Camshaft**
- TR26115

5) **O'ring, Oil Cooler**
- TR47153

Head Bolt Kit
- TMX365 2

Valve, Intake
- TR50358 Std.
- TR55055 0.003
- TR55057 0.015

Valve, Exhaust
- TR50357 Std.
- TR55056 0.003
- TR55058 0.015

1) Insert, Valve In
- TR78702 Std.
- TR82508 0.010

2) Insert, Valve Ex
- TR50356 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627

1) **Thermostat**
- TAR48675 180° F

2) **Oil Pressure Sensor**
- TRE167207 7

Water Pump Repair Kit
- See Chart 180° F

Water Pump
- TRE55985 5
- TRE55986 5
- TRE20022 6

Water Pump Gasket
- TR61437
- TR42406

1) **Pump, Oil**
- TRE60622 9

2) **Pump, Oil, Quad Transmission**
- TRE20918 For Tractor 4440

Turbocharger
- TRE19778

(1): Shape, Conrod Bushing.

(2): TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7. * With To ESN 318403.

(3): Some applications use TAR55394.

(4): TRE53422 will require front key TR116311 for the front damper.

(5): Must check proper application. (m) R71224, (m) R83561.

(6): OEM From ESN 067685.

(7): Check for proper application.

(8): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(9): Late style, crank driven pump, uses a 1 piece elbow and screen that bolts to pump. Early pumps have a pickup screen that bolts directly to the pump (elbow is part of the pump).When replacing the early pump, you will need the dealer items RE42653 intake tube & R100569 gasket.

JOHN DEERE 6.466A/T CON ROD (M) R71074

Engine Series:
400

Engine Model:
6.466T

Engine Data:
From ESN 253,373

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Con Rod (M):
R71074, (P/N AR93341)

Piston (M):
AR100616, AR98838

Please see page **470** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRG18847
- TRG18847HC

2) **Engine I/F Kit**
- TIK18847
- TIK18847HC
- SPEC SHEET - 6.466A-T

Piston-Liner Kit
- TAR100646
- TAR100646HC

Consists of:
- a) TAR100616
- TAR100616HC
- b) TRE48380
- c) TR57771
- d) TAR63060
- e) TAR98850
- f) TE1343FN

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

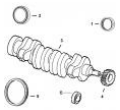
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR73277 Std.
- TAR73279 0.010
- TAR73280 0.020
- TAR73281 0.030

Use 6



1) **Front Seal**
- TAR49025

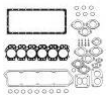
2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 9 5

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

6) **Rear Gear**
- TR63326



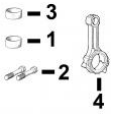
1) **O/H Gasket Set**
- TAR98845

2) **Head Gasket Set**
- TAR98851

3) **Head Gasket**
- TRE47336

4) **Oil Pan Gasket**
- TR71918

5) **Gasket Intake Manifold**
- TR50397



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR93341 X1

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAT25038 4

3) **Camshaft Kit**
- TAR100385

4) **Plug, Camshaft**
- TR26115

5) **O'ring, Oil Cooler**
- TR47153

6) **Head Bolt Kit**
- TMX365 2
- TMX366 3

Pump, Oil
- TRE60622 10

Valve, Intake
- TR50358 Std.
- TR55055 0.003
- TR55057 0.015

Valve, Exhaust
- TR50357 Std.
- TR55056 0.003
- TR55058 0.015

1) Insert, Valve In
- TR78702 Std.
- TR82508 0.010

2) Insert, Valve Ex
- TR50356 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE11410

3) O'ring, Valve
- TR87627

1) **Thermostat**
- TAR48675 180° F

2) **Oil Pressure Sensor**
- TRE167207 8

3) **Crankshaft Sensor**
- TRE519144 8

Water Pump Repair Kit
- See Chart 180° F

Water Pump
- TRE55985 6
- TRE55986 6
- TRE20022 7

Water Pump Gasket
- TR61437
- TR42406

Pump, Oil, Quad Transmission
- TRE20918 For Tractors 4250, 4040, 4450

Turbocharger
- TRE19778

(1): Shape, Conrod Bushing.

(3): TMX366 Consists of: TR88043 x11, TR88044 x8, TR88045 x7. ** With From ESN 317677.

(4): Some applications use TAR55394.

(5): TRE53422 will require front key TR116311 for the front damper.

(6): Must check proper application. (m) R71224, (m) R83561.

(7): OEM From ESN 067685.

(8): Check for proper application.

(9): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(10): Late style, crank driven pump, uses a 1 piece elbow and screen that bolts to pump. Early pumps have a pickup screen that bolts directly to the pump (elbow is part of the pump).When replacing the early pump, you will need the dealer items RE42653 intake tube & R100569 gasket.

JOHN DEERE 6.466A ESN 233,593-317,858

Engine Series:
400

Engine Model:
6.466A

Engine Data:
ESN 233,593 – 317,858

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Block (M):
R71688, R71685, R80481

Con Rod (M):
R71074, (P/N AR93341)

Piston (M):
RE60284

Forage Cane Harvesters
5720
5730

Crawler Dozers
850B

Excavators
690C
892D

Motor Graders
770A
770B

Scrapers
762A
762B

Skidders
740A

Wheel Loaders
644C

Farm Tractors
4840
4850
8430
8440
8450

Combines
8820

Cotton Pickers
9940
9950

1) **Engine O/H Kit**
- TRG20142

2) **Engine I/F Kit**
- TIK20142
- SPEC SHEET - 6.466A

Piston-Liner Kit
- TAR100960

Consists of:
- a) TAR100673
- b) TRE48380
- c) TR57771
- d) TAR63060
- e) TR98850
- f) TE1343FN

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

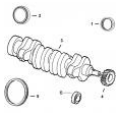
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR73277 Std.
- TAR73279 0.010
- TAR73280 0.020
- TAR73281 0.030

Use 6



1) **Front Seal**
- TAR49025

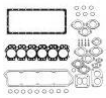
2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 9 5

4) **Crankshaft, Gear**
- TR26049 (23T)

5) **Ring Gear**
- TR28811 (129T)

6) **Rear Gear**
- TR63326



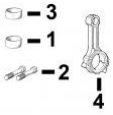
1) **O/H Gasket Set**
- TAR98845

2) **Head Gasket Set**
- TAR98851

3) **Head Gasket**
- TRE47336

4) **Oil Pan Gasket**
- TR71918

5) **Gasket Intake Manifold**
- TR50397



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR46903 x4

4) **Con Rod**
- TAR93341 X1

1) **Cam Follower**
- TR52773 x12

2) **Oil Cooler**
- TAT25038 4

3) **Camshaft Kit**
- TAR100385

4) **Plug, Camshaft**
- TR26115

5) **O'ring, Oil Cooler**
- TR47153

6) **Head Bolt Kit**
- TMX365 2
- TMX366 3

1) **Pump, Oil**
- TRE60622 10

Valve, Intake
- TR50358 Std.
- TR55055 0.003
- TR55057 0.015

Valve, Exhaust
- TR50357 Std.
- TR55056 0.003
- TR55058 0.015

1) **Insert, Valve In**
- TR78702 Std.
- TR82508 0.010

2) **Insert, Valve Ex**
- TR50356 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE11410

3) **O'ring, Valve**
- TR87627

1) **Thermostat**
- TAR48675 180° F

2) **Oil Pressure Sensor**
- TRE167207 8

3) **Crankshaft Sensor**
- TRE519144 8

Water Pump Repair Kit
- See Chart 180° F

Water Pump
- TRE55985 6
- TRE55986 6
- TRE20022 7

Water Pump Gasket
- TR61437
- TR42406

(1): Shape, Conrod Bushing.

(3): TMX366 Consists of: TR88043 x11, TR88044 x8, TR88045 x7. ** With From ESN 317677.

(4): Some applications use TAR55394.

(5): TRE53422 will require front key TR116311 for the front damper.

(6): Must check proper application. (m) R71224, (m) R83561.

(7): OEM From ESN 067685.

(8): Check for proper application.

(9): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(10): Late style, crank driven pump, uses a 1 piece elbow and screen that bolts to pump. Early pumps have a pickup screen that bolts directly to the pump (elbow is part of the pump).When replacing the early pump, you will need the dealer items RE42653 intake tube & R100569 gasket.

JOHN DEERE 6076 T/A/H LOW RING PISTON

Engine Series:
400

Engine Model:
6076

Engine Desc:
Low Ring Piston

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Con Rod (M):
R71074, (P/N AR93341)

Piston (M):
RE48739

Farm Tractors
4955
4960
8560
8570

Excavators
892E

1) **Engine O/H Kit**
- TRE60299

2) **Engine I/F Kit**
- TIK60299
- SPEC SHEET - 6076T-A-H

Piston-Liner Kit
- TRE60297

Consists of:
- a) TRE57731 [1]
- b) TRE48380
- c) TR57771
- d) TAR63060
- e) TAR98850
- f) TE1343FN

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

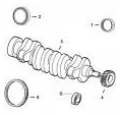
Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR73277 Std.
- TAR73279 0.010
- TAR73280 0.020
- TAR73281 0.030

Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRE53422 [5] [12]
- TRE53201 [5] [2]

4) **Crankshaft, Gear**
- TR105488 [4]

5) **Ring Gear**
- TR28811 (129T)

6) **Rear Gear**
- TR63326

1) **O/H Gasket Set**
- TRE35647

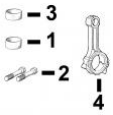
2) **Head Gasket Set**
- TRE29859

3) **Head Gasket**
- TRE47336

4) **Oil Pan Gasket**
- TR71918
- TR520844 [12]

5) **Front Cover Gasket**
- TR104623
- TR99464

6) **Oil Cooler Gasket**
- TR128557
- TR128558



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR87561 x4

4) **Con Rod**
- TAR93341 x1

1) **Oil Cooler**
- TAR55394 [7]

2) **O'Ring, Oil Cooler**
- TR47153

3) **Plug, Camshaft**
- TR82007

4) **Head Bolt Kit**
- TMX366 [6]
- TRG24026 [11]

5) **Tappet**
- TR110126 x12 [8]

6) **Belt Tensioner**
- TRE57498 [9]
- TRE68715 [9]

1) **Pump, Oil**
- TRE60622
- TRE507074 [10]

2) **Camshaft**
- TR108370 [13]
- TR120872 [14]

3) **Camshaft Bolt**
- TR85319

4) **Camshaft Kit**
- TRE57054 [15] [14]
- TRG22421 [16] [13]

Valve, Intake
- TR84618 Std.
- TR93308 0.003
- TR93312 0.015

Valve, Exhaust
- TR84619 Std.
- TR93311 0.003
- TR93313 0.015

1) **Insert, Valve In**
- TR84977 Std.

2) **Insert, Valve Ex**
- TR84976 Std.

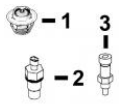
1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

3) **Shield, Valve**
- TR102882

1) **Spring, Valve**
- TR91822

2) **Rotator, Valve**
- TRE11410



1) **Thermostat**
- TAR48675 180° F

2) **Water Temp Sensor**
- TRE52722 [9]

3) **Crankshaft Sensor**
- TRE519144 [9]

Water Pump Repair Kit
- See Chart 180° F

Water Pump
- TRE55985 (m) R71224, (m) R83561 [9]
- TRE55986 (m) R71224, (m) R83561 [9]
- TRE68230 (High flow)

(1): Low Ring Piston.

(2): Long snout (3.4in.) C/S (m) R87544, RE53201.

(3): Short snout (3in) C/S (m) RE53203, R63451, R104855.

(4): TRE53422 Use Helicoidal front gear.

(5): Require front key TR116311 for the front damper.

(6): Use with blocks marked R109806 and below.

(7): To ESN 100664 Use: TAT25038. Not for use with From ESN 500,000.

(8): From ESN 192401.

(9): Check application for proper usage.

(10): For engines with ESN 500 000 and above, and housing is marked (m) R124746 or R504071.

(11): For engines with ESN 500,000 and above. Use only with blocks marked R122738 & above.

(12): In some blocks with casting R40620 the crank may hit the block near the oil pump mounting and requires grinding approximately 1/8" from the crank or block for clearance.

(13): For engines to ESN 499,999.

(14): For engines from ESN 500,000

(15): Contain TR120872 x 1 and TR110126 x 12.

(16): Contains TR108370 x 1 and TR85319 x 1 and TR110126 x 12.

JOHN DEERE 6076 T/A/H HIGH RING PISTON

Engine Series:
400

Engine Model:
6076

Engine Desc:
High Ring Piston

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Block (M):
R122729

Con Rod (M):
R71074 , (P/N AR93341)

Piston (M):
RE60294

Please see page **471** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE64212

2) **Engine I/F Kit**
- TIK64212
- SPEC SHEET - 6076T-A-H

Piston-Liner Kit
- TRE60294

Consists of:
- a) TRE57512
- b) TRE57517
- c) TR57771
- d) TAR63060
- e) TAR98850
- f) TE1343FN

Main Bearing
- TAR74814 Std.
- TAR74816 0.010
- TAR74817 0.020
- TAR74818 0.030

Use 6

Thrust Bearing
- TAR77748 Std.
- TAR77750 0.010
- TAR77751 0.020
- TAR77752 0.030

Use 1

Thrust Washer
- TAR77747 Std.
- TAR77753 0.007

Con Rod Bearing
- TAR73277 Std.
- TAR73279 0.010
- TAR73280 0.020
- TAR73281 0.030

Use 6

1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft**
- TRG23551 [1]
- TRE53422 [7]

4) **Crankshaft, Gear**
- TR104587

5) **Ring Gear**
- TR28811 129T

6) **Rear Gear**
- TR63326

1) **O/H Gasket Set**
- TRE35647

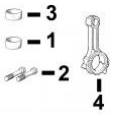
2) **Head Gasket Set**
- TRE29859

3) **Head Gasket**
- TRE47336

4) **Oil Pan Gasket**
- TR71918
- TR520844 [6]

5) **Front Cover Gasket**
- TR104623
- TR99464

6) **Oil Cooler Gasket**
- TR128557
- TR128558



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR66452 x12

3) **Bushing, Cam**
- TR87561 x4

4) **Con Rod**
- TAR93341 x1

1) **Tappet**
- TR110126 x12

2) **Plug, Camshaft**
- TR82007

3) **Tensioner, Belt**
- TRE57498 [3]
- TRE68715 [3]

4) **Head Bolt Kit**
- TRG24026 [5]

5) **Camshaft**
- TR108370 [4]
- TR120872 [8]

6) **Camshaft Bolt**
- TR85319

7) **Camshaft Kit**
- TRE57054 [10] [8]
- TRG22421 [9] [4]

Pump, Oil
- TRE60622
- TRE507074 [2]

Valve, Intake
- TR84618 Std.
- TR93308 0.003
- TR93312 0.015

Valve, Exhaust
- TR84619 Std.
- TR93311 0.003
- TR93313 0.015

1) **Insert, Valve In**
- TR84977 Std.

2) **Insert, Valve Ex**
- TR84976 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

3) **Shield, Valve**
- TR102882

1) **Spring, Valve**
- TR91822

2) **Rotator, Valve**
- TRE11410

1) **Thermostat**
- TAR48675 180° F

2) **Oil Pressure Sensor**
- TRE167207 [3]

3) **Water Temp Sensor**
- TRE52722 [3]

4) **Crankshaft Sensor**
- TRE519144 [3]

Water Pump Repair Kit
- See Chart 180° F

Water Pump
- TRE55985 (m) R71224, (m) R83561 [3]
- TRE55986 (m) R71224, (m) R83561 [3]
- TRE68230 (High flow)

(1): C/S (m) RE53199, with straight front gear TR104587. Helical gear should be discarded. TRG23551 will require front key TR116311 for the front damper.

(2): For engines with ESN 500 000 and above, and housing is marked (m) R124746 or R504071.

(3): Check application for proper usage.

(4): For engines to ESN 499,999.

(5):) For engines with ESN 500,000 and above. Use only with blocks marked R122738 & above.

(6): The TR520844 is the metal/rubber oil pan gasket, that is used on the applications were the oil pan is part of the frame. It is not included in the full gasket or the overhaul kits.

(7): Short snout (3in) C/S (m) RE53203, R63451, R104855. Require front key TR116311 for the front damper.

(8): For engines from ESN 500,000.

(9): Contains TR108370 x 1 and TR85319 x 1 and TR110126 x 12.

(10): Contains TR120872 x 1 and TR110126 x 12.

JOHN DEERE 6.531D SEE CON. ROD (M)

Engine Series:
500

Engine Model:
6.531D

Engine Data:
(Do Not Use this Kit for Early Engines with Block Casting No: R35130.)

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.75 in / 121 mm
Pin Ø: 1.75 in / 44.4 mm

Block (M):
R40270, R42370, R45300, R47510

Con Rod (M):
R35048, R58881, R40238, R66927, R53286

Farm Tractors		Backhoe Loaders		Scrapers	
5020	6030	700	700A	760	760A

1) Engine O/H Kit
- TOK6549

2) Engine I/F Kit
- TIK6549
- SPEC SHEET - 6.531D

Piston-Liner Kit
- TPLK549

Consists of:
- a) TRE16548
- b) TAR41295
- c) TR35053
- d) TR42366
- e) TAR55951
- f) TD2824R

Main Bearing
- TAR101266 Std.
- TAR104568 0.010
- TAR104569 0.020
- TAR104570 0.030

Use 6

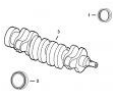
Thrust Bearing
- TAR101267 Std.
- TAR104564 0.010
- TAR104565 0.020
- TAR104566 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR53020 Std.
- TAR57208 0.010
- TAR57209 0.020
- TAR57210 0.030

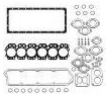
Use 6



1) Front Seal
- TAR49025

2) Rear Seal
- TRE13310

3) Crankshaft
- TAR92533

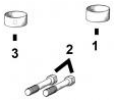


1) O/H Gasket Set
- TAR53614

2) Head Gasket Set
- TAR53613

3) Head Gasket
- TR78513

4) Oil Pan Gasket
- TR71919



1) Bush, Con Rod
- TR36328 x6

2) Bolt, Con Rod
- TR66453 x12

3) Bushing, Cam
- TR46903 x4

Thermostat
- TR36846 180° F

1) Injector, Pencil
- TAR50782

2) Seal
- TR60746
- TR48000

Valve, Intake
- TR42182

Valve, Exhaust
- TR45823

1) Insert, Valve In
- TR41868

2) Insert, Valve Ex
- TR41869

1) Guide, Valve
- TR53192

2) Lock, Valve
- TR35431

3) Cap, Valve
- TR40366

Engine Series:
500

Engine Model:
6.531T

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.75 in / 121 mm
Pin Ø: 1.875 in / 47.6 mm

Block (M):
R48260, R72129, R80401

Con Rod (M):
R48315, R53287, R58883, R66926

Compactors
646B

Motor Graders
770
770A
772A

Wheel Loaders
644B

1) **Engine O/H Kit**
- TOK6512

2) **Engine I/F Kit**
- TIK6512
- SPEC SHEET - 6.531T

Piston-Liner Kit
- TPLK512

Consists of:
- a) TAR67512
- b) TAR53226
- c) TR49418
- d) TM48350
- e) TR49423
- f) TE1343FN

Main Bearing
- TAR101266 Std.
- TAR104568 0.010
- TAR104569 0.020
- TAR104570 0.030

Use 6

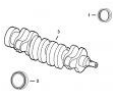
Thrust Bearing
- TAR101267 Std.
- TAR104564 0.010
- TAR104565 0.020
- TAR104566 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR53020 Std.
- TAR57208 0.010
- TAR57209 0.020
- TAR57210 0.030

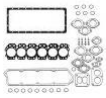
Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE13310

3) **Crankshaft**
- TAR92533



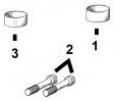
1) **O/H Gasket Set**
- TRE17050

2) **Head Gasket Set**
- TAR67510

3) **Head Gasket**
- TR78513

4) **Oil Pan Gasket**
- TR71919

5) **Gasket, Turbo Mount**
- TR89879



1) **Bush, Con Rod**
- TR76783 x6

2) **Bolt, Con Rod**
- TR66453 x12

3) **Bushing, Cam**
- TR46903 x4

Oil, Pump
- TRE60622 1

1) **Injector, Pencil**
- TAR50782

2) **Seal**
- TR60746
- TR48000

3) **Thermostat**
- TAR48675 180° F

Valve, Intake
- TR90602

Valve, Exhaust
- TR90601

1) **Insert, Valve**
- TR41868

2) **Insert, Valve Ex**
- TR41869

1) **Guide, Valve**
- TR53192

2) **Lock, Valve**
- TR35431

3) **Cap, Valve**
- TR40366

1) **Spring Valve Outer**
- TR49571

2) **Spring Valve Inner**
- TR49569

3) **Rotator, Valve**
- TR81086

(1): Crank Driven Pump.

Engine Series:
500

Engine Model:
6.531A

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.75 in / 121 mm
Pin Ø: 1.875 in / 47.6 mm

Block (M):
R48260, R72129, R80401

Con Rod (M):
R48315, R53287, R58883, R66926

Farm Tractors

6030

7520

1) **Engine O/H Kit**
- TOK6225

2) **Engine I/F Kit**
- TIK6225
- SPEC SHEET - 6.531A

Piston-Liner Kit
- TPLK225

Consists of:
- a) TAR53227
- b) TAR53226
- c) TR49418
- d) TD48350
- e) TR49423
- f) TE1343FN

Main Bearing
- TAR101266 Std.
- TAR104568 0.010
- TAR104569 0.020
- TAR104570 0.030

Use 6

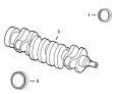
Thrust Bearing
- TAR101267 Std.
- TAR104564 0.010
- TAR104565 0.020
- TAR104566 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR53020 Std.
- TAR57208 0.010
- TAR57209 0.020
- TAR57210 0.030

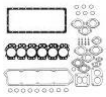
Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE13310

3) **Crankshaft**
- TAR92533



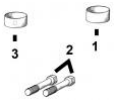
1) **O/H Gasket Set**
- TRE17046

2) **Head Gasket Set**
- TAR56154

3) **Head Gasket**
- TR78513

4) **Oil Pan Gasket**
- TR71919

5) **Intake Manifold Gsk**
- TR53081



1) **Bush, Con Rod**
- TR76783 x6

2) **Bolt, Con Rod**
- TR66453 x12

3) **Bushing, Cam**
- TR46903 x4

Oil, Pump
- TRE60622 1

Thermostat
- TAR48675 180° F

Valve, Intake
- TR90602 Std.

Valve, Exhaust
- TR90601 Std.

1) **Guide, Valve**
- TR53192

2) **Lock, Valve**
- TR35431

3) **Cap, Valve**
- TR40366

1) **Spring, Valve Outer**
- TR49571

2) **Spring, Valve Inner**
- TR49569

3) **Rotator, Valve**
- TR81086

(1): Crank Driven Pump.

Engine Series: 500
Engine Model: 6.619A/T
Engine Desc: Early
Engine Data: To ESN 033814
Engine Info: 6 Cyl
Engine Dimensions: Bore: 5.125 in / 130 mm Pin Ø: 2.00 in / 50.8 mm
Block (M): R57424, R65628
Con Rod (M): R66925, R57484

Farm Tractors
8630

1) **Engine O/H Kit**
- TOK84089

2) **Engine I/F Kit**
- TIK84089
- SPEC SHEET - 6.619A-T

Piston-Liner Kit
- TAR84089

Consists of:
- a) TAR69038
- b) TAR82355
- c) TR64451
- d) TR65629
- e) TAR72351
- f) TN51168

Main Bearing
- TAR101268 Std.
- TAR104122 0.010
- TAR104123 0.020
- TAR104124 0.030

Use 6

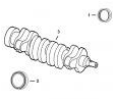
Thrust Bearing
- TAR101269 Std.
- TAR104126 0.010
- TAR104127 0.020
- TAR104128 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR101271 Std.
- TAR104130 0.010
- TAR104131 0.020
- TAR104132 0.030

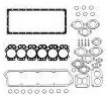
Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE13310

3) **Crankshaft**
- TAR92533

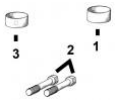


1) **O/H Gasket Set**
- TRE37416

2) **Head Gasket Set**
- TRE37417

3) **Head Gasket**
- TRE34009

4) **Oil Pan Gasket**
- TR71919



1) **Bush, Con Rod**
- TR60197 x6

2) **Bolt, Con Rod**
- TR66453 x12

3) **Bushing, Cam**
- TR46903 x4

Oil, Pump
- TRE60622 1

Thermostat
- TAR48675 180° F

Valve, Intake
- TR75690

Valve, Exhaust
- TR63982

1) **Insert, Valve**
- TR59894 Std.

2) **Insert, Valve Ex**
- TR60537 Std.

1) **Guide, Valve**
- TR53192

2) **Lock, Valve**
- TR35431

3) **Cap, Valve**
- TR40366

1) **Spring, Valve Outer**
- TR49571

2) **Spring, Valve Inner**
- TR49569

3) **Rotator, Valve**
- TR81086

(1): Crank Driven Pump.

JOHN DEERE 6.619A/T MID

Engine Series: 500

Engine Model: 6.619A/T

Engine Desc: Mid

Engine Data: 033815 – 049059

Engine Info: 6 Cyl

Engine Dimensions: Bore: 5.125 in / 130 mm Pin Ø: 2.00 in / 50.8 mm

Block (M): R63199, R639121, R72130, R74123

Con Rod (M): R63959

Crawler Dozers		Excavators		Scrapers		Farm Tractors	
850	855	890	890A	762 862	860B	8630 8650	8640

1) **Engine O/H Kit**
- TOK20291

2) **Engine I/F Kit**
- TIK20291
- SPEC SHEET - 6.619A-T

Piston-Liner Kit
- TRE20291

Consists of:
- a) TRE20275
- b) TAR82355
- c) TR64451
- d) TR65629
- e) TAR72351
- f) TN51168

Main Bearing
- TAR101268 Std.
- TAR104122 0.010
- TAR104123 0.020
- TAR104124 0.030

Use 6

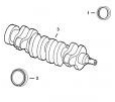
Thrust Bearing
- TAR101269 Std.
- TAR104126 0.010
- TAR104127 0.020
- TAR104128 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR101271 Std.
- TAR104130 0.010
- TAR104131 0.020
- TAR104132 0.030

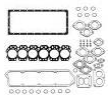
Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE13310

3) **Crankshaft**
- TAR92533

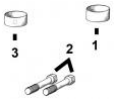


1) **O/H Gasket Set**
- TRE37416

2) **Head Gasket Set**
- TRE37417

3) **Head Gasket**
- TRE34009

4) **Oil Pan Gasket**
- TR71919



1) **Bush, Con Rod**
- TR69045 x6

2) **Bolt, Con Rod**
- TR66453 x12

3) **Bushing, Cam**
- TR46903 x4

Oil, Pump
- TRE60622 1

1) **Thermostat**
- TAR48675 180° F

2) **Oil Pressure Sensor**
- TRE167207 2

Valve, Intake
- TR75690 Std.

Valve, Exhaust
- TR63982 Std.

1) **Insert, Valve**
- TR59894 Std.

2) **Insert, Valve Ex**
- TR60537 Std.

1) **Guide, Valve**
- TR53192

2) **Lock, Valve**
- TR35431

3) **Cap, Valve**
- TR40366

1) **Spring, Valve Outer**
- TR49571

2) **Spring, Valve Inner**
- TR49569

3) **Rotator, Valve**
- TR81086

(1): Crank Driven Pump.

(2): Check for proper application.

Engine Series: 500

Engine Model: 6.619A/T

Engine Desc: Late

Engine Data: From ESN 049060

Engine Info: 6 Cyl

Engine Dimensions: Bore: 5.125 in / 130 mm Pin Ø: 2.00 in / 50.8 mm

Block (M): R75934, R87552, R88217, R98554, R105739

Con Rod (M): R63959

Crawler Dozers		Excavators		Scrapers		Wheel Loaders	Farm Tractors	
850	855	890	890A	762	860B	744E	8630	8640
		992D	992E	862			8650	

1) **Engine O/H Kit**
- TOK40476

2) **Engine I/F Kit**
- TIK40476
- SPEC SHEET - 6.619A-T

Piston-Liner Kit
- TRE40476

Consists of:
- a) TRE20275
- b) TAR82355
- c) TR64451
- d) TR77640
- e) TAR72351
- f) TN51168

Main Bearing
- TAR101268 Std.
- TAR104122 0.010
- TAR104123 0.020
- TAR104124 0.030

Use 6

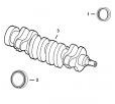
Thrust Bearing
- TAR101269 Std.
- TAR104126 0.010
- TAR104127 0.020
- TAR104128 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR101271 Std.
- TAR104130 0.010
- TAR104131 0.020
- TAR104132 0.030

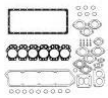
Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE13310

3) **Crankshaft**
- TAR92533

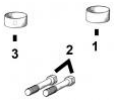


1) **O/H Gasket Set**
- TRE37416

2) **Head Gasket Set**
- TRE37417

3) **Head Gasket**
- TRE34009

4) **Oil Pan Gasket**
- TR71919



1) **Bush, Con Rod**
- TR69045 x6

2) **Bolt, Con Rod**
- TR66453 x12

3) **Bushing, Cam**
- TR46903 x4

Oil, Pump
- TRE60622 1

1) **Thermostat**
- TAR48675 180° F

2) **Oil Pressure Sensor**
- TRE167207 2

Valve, Intake
- TR75690 Std.

Valve, Exhaust
- TR63982 Std.

1) **Insert, Valve**
- TR59894 Std.

2) **Insert, Valve Ex**
- TR60537 Std.

1) **Guide, Valve**
- TR53192

2) **Lock, Valve**
- TR35431

3) **Cap, Valve**
- TR40366

1) **Spring, Valve Outer**
- TR49571

2) **Spring, Valve Inner**
- TR49569

3) **Rotator, Valve**
- TR81086

(1): Crank Driven Pump.

Engine Series:
500

Engine Model:
6.101A/T

Engine Data:
To ESN 499,999

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 5.125 in / 130 mm
Pin Ø: 2.00 in / 50.8 mm

Block (M):
R75934, R87552, R88217, R98554, R105739

Combines
8760

Farm Tractors
8870

1) **Engine O/H Kit**
- TOK40476L

2) **Engine I/F Kit**
- TIK40476L
- SPEC SHEET - 6.101A-T

Piston-Liner Kit
- TRE40476

Consists of:
- a) TRE20275
- b) TAR82355
- c) TR64451
- d) TR77640
- e) TAR72351
- f) TN51168

Main Bearing
- TAR101268 Std.
- TAR104122 0.010
- TAR104123 0.020
- TAR104124 0.030

Use 6

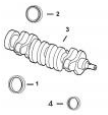
Thrust Bearing
- TAR101269 Std.
- TAR104126 0.010
- TAR104127 0.020
- TAR104128 0.030

Use 1

Thrust Washer
- TAR89622 Std.

Con Rod Bearing
- TAR101271 Std.
- TAR104130 0.010
- TAR104131 0.020
- TAR104132 0.030

Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE13310

3) **Crankshaft**
- TAR92533

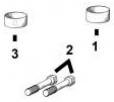
4) **Rear Gear**
- TR63326

1) **O/H Gasket Set**
- TRE37416

2) **Head Gasket Set**
- TRE37417

3) **Head Gasket**
- TRE34009

4) **Oil Pan Gasket**
- TR71919



1) **Bush, Con Rod**
- TR69045 x6

2) **Bolt, Con Rod**
- TR66453 x12

3) **Bushing, Cam**
- TR46903 x4 2

Oil, Pump
- TRE60622 1

Thermostat
- TAR48675 180° F

Valve, Intake
- TR101304 Std.

Valve, Exhaust
- TR101305 Std.

1) **Lock, Valve**
- TT20077

2) **Shield, Valve**
- TR102882 x6

1) **Spring, Valve**
- TR91822

2) **Rotator, Valve**
- TRE11410

3) **Cap, Valve**
- TT20129

(1): Crank Driven Pump.

(2): For Blocks after R105739 use TR87561 bushing, order separately.

JOHN DEERE 3TNE84 84MM BORE NON TURBO

Engine Model:
3TNE84

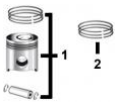
Engine Data:
JOHN DEERE ENGINE MODEL:
3015

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.30 in / 84.00 mm Stroke: 3.54 in / 90.00 mm

Utility Tractors		Mowers		Skid Steers	Engine Model
790	4300	3225B	3235	4475	3015
4310		3235A	3235B		

1) **Engine O/H Kit**
- TOK3015D
- TOK3015D/10
- SPEC SHEET - 3TNE84



1) **Piston & Ring Kit**
- TAM878606 Std.
- TAM878598 0.010

Use 3

2) **Ring Set**
- TAM878555 Std.
- TAM878599 0.010

See note (1) below

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

Use 4

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 3

Thrust Washers
- TMIA880555

Set of 4

1) **Front Seal**
- TM800988

2) **Rear Seal**
- TM805278

3) **Crankshaft**
- TAM880894 4

4) **Flywheel Ring Gear**
- TCH10466 127T 1

1) **O/H Gasket Set**
- TMGS3015

2) **Head Gasket**
- TM806440

3) **Liquid Gasket**
- TM64850

4) **Rocker Cover Gasket**
- TM801741

1) **Bush, Con Rod**
- TM801256 x3

2) **Bolt, Con Rod**
- TCH15483 x6

3) **Bushing, Cam**
- TMIU800573 x1

4) **Connecting Rod**
- TAM875391

5) **Bolt, Cylinder Head**
- TM801186 x14

1) **Tappet**
- TM801046 x6

2) **Camshaft**
- TAM876430 3

3) **Push Rod**
- TM801238 x6

Valve, Intake
- TM801220

Valve, Exhaust
- TMIU800494

1) **Guide, Valve In**
- TM801227

2) **Guide, Valve Ex**
- TM801228 x3

1) **Lock, Valve**
- TAM878862

2) **Stem, Seal Int**
- TCH10450 x3

3) **Stem, Seal Exh**
- TT110650 x3

1) **Spring, Valve**
- TM801222

2) **Cap, Valve**
- TM801224

1) **Thermostat**
- TM811034

2) **Injector**
- TAT110293 1

Oil, Pump
- TAM878778

Lift Pump
- TAM882462

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 84RS

(1): Check your application for proper usage.
(2): Like TMIA880621, with Inject Pump cooling connections.
(3): Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(4): Gear not included. To be used in engines without crank driven balancer unit

JOHN DEERE 4TNE84 84MM BORE NON TURBO

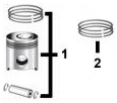
Engine Model:
4TNE84

Engine Data:
JOHN DEERE ENGINE MODEL:
4020D

Engine Dimensions:
Bore: 3.30 in / 84.00 mm Stroke: 3.54 in / 90.00 mm

Utility Tractors		Skid Steers	Backhoe Loaders	Engine Model
990	4500	6675	110	4020
4510	4600			
4610				

1) **Engine O/H Kit**
- TOK4020D
- TOK4020D/10
- SPEC SHEET - 4TNE84



1) **Piston & Ring Kit**
- TAM878606 Std.
- TAM878598 0.010

Use 4

2) **Ring Set**
- TAM878555 Std.
- TAM878599 0.010

See note (1) below

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

Use 5

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 4

Thrust Washers
- TMIA880555

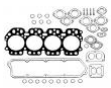
Set of 4

1) **Front Seal**
- TM800988

2) **Rear Seal**
- TM805278

3) **Crankshaft**
- TAM878619 3

4) **Flywheel Ring Gear**
- TCH10466 127T 1



1) **O/H Gasket Set**
- TMGS4020

2) **Head Gasket**
- TM806505

3) **Liquid Gasket**
- TM64850

4) **Rocker Cover Gasket**
- TM801230

1) **Bush, Con Rod**
- TM801256 x4

2) **Bolt, Con Rod**
- TCH15483 x8

3) **Bushing, Cam**
- TMIU800573 x1

4) **Connecting Rod**
- TAM875391

5) **Bolt, Cylinder Head**
- TM801186 x18

1) **Tappet**
- TM801046 x8

2) **Camshaft**
- TAM875386

3) **Push Rod**
- TM801238 x8

Valve, Intake
- TM801220 x4

Valve, Exhaust
- TMIU800494 x4

1) **Guide, Valve In**
- TM801227 x4

2) **Guide, Valve Ex**
- TM801228 x4

1) **Lock, Valve**
- TAM878862 x16

2) **Stem, Seal Int**
- TCH10450 x4

3) **Stem, Seal Exh**
- TT110650 x4

1) **Spring, Valve**
- TM801222 x8

2) **Cap, Valve**
- TM801224

1) **Thermostat**
- TM811034

2) **Injector**
- TAT110293 1

3) **Water Temp Sensor**
- TRE51774 1

Oil, Pump
- TAM878778

Lift Pump
- TAM882462

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 84RS

(1): Check your application for proper usage.

(2): Like TMIA880621, with Inject Pump cooling connections.

(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

JOHN DEERE 4TNE84T 84MM BORE TURBO

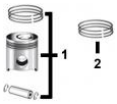
Engine Model:
4TNE84T

Engine Data:
JOHN DEERE ENGINE MODEL:
4020T

Engine Dimensions:
Bore: 3.30 in / 84.00 mm Stroke: 3.54 in / 90.00 mm

Skid Steers	Mowers	Engine Model
6675	1600	4020T

1) Engine O/H Kit
- TOK4020T
- TOK4020T/10
- SPEC SHEET - 4TNE84T



1) Piston & Ring Kit
- TAM878575 Std.
- TAM878598 0.010

Use 4

2) Ring Set
- TAM878555 Std.
- TAM878599 0.010

Main Bearing
- TAM875371 Std.
- TMIA880550 .010

Use 5

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 .010

Use 4

Thrust Washers
- TMIA880555

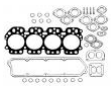
Set of 4

1) Front Seal
- TM800988

2) Rear Seal
- TM805278

3) Crankshaft
- TAM878619 3

4) Flywheel Ring Gear
- TCH10466 127T 1



1) O/H Gasket Set
- TMGS4020

2) Head Gasket
- TM806505

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TM801230

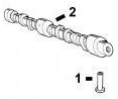
1) Bush, Con Rod
- TM801256 x4

2) Bolt, Con Rod
- TCH15483 x8

3) Bushing, Cam
- TMIU800573 x1

4) Connecting Rod
- TAM875391

5) Bolt, Cylinder Head
- TM801186 x18



1) Tappet
- TM801046 x8

2) Camshaft
- TAM875386 3

Valve, Intake
- TM801220 x4

Valve, Exhaust
- TMIU800494 x4

1) Guide, Valve In
- TM801227 x4

2) Guide, Valve Ex
- TM801228 x4

1) Lock, Valve
- TAM878862 x16

2) Stem, Seal Int
- TCH10450 x4

3) Stem, Seal Exh
- TT110650 x4

1) Spring, Valve
- TM801222 x8

2) Cap, Valve
- TM801224

1) Thermostat
- TM811034

2) Injector
- TAT110293 1

Oil, Pump
- TAM878778

Lift Pump
- TAM882462

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 84RS

(1): Check your application for proper usage.
(2): Like TMIA880621, with Inject Pump cooling connections.
(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

JOHN DEERE 3TNE88 88MM BORE NON TURBO

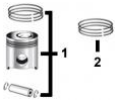
Engine Model: 3TNE88

Engine Info: 3 Cyl

Engine Dimensions: Bore: 3.46 in / 88.00 mm

Mowers		Utility Tractors		Skid Steers	Farm Tractors
1565	F1565	4400	4410	5575	JD1200

1) Engine O/H Kit
- TOK3TNE88
- TOK3TNE88/10
- SPEC SHEET - 3TNE88



1) Piston & Ring Kit
- TAM879953 Std.
- TAM878641 0.010

Use 3

2) Ring Set
- TAM879901 Std.
- TAM878642 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

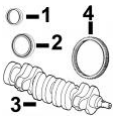
Use 4

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 3

Thrust Washers
- TMIA880555

Set of 4



1) Front Seal
- TM800988

2) Rear Seal
- TM805278

3) Crankshaft
- TAM880894 3

4) Flywheel Ring Gear
- TCH10466 127T 1

1) O/H Gasket Set

1) TMGS3TNE88

2) Head Gasket
- TM806811

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TM801741

1) Bush, Con Rod
- TM801256 x3

2) Bolt, Con Rod
- TCH15483 x6

3) Bushing, Cam
- TMIU800573 x1

4) Connecting Rod
- TAM875391

5) Bolt, Cylinder Head
- TM801186 x14

1) Tappet
- TM801046 x6

2) Camshaft
- TAM876430 4

3) Push Rod
- TM801238 x6

Valve, Intake
- TM801220 x3

Valve, Exhaust
- TMIU800494 x3

1) Guide, Valve In
- TM801227 x3

2) Guide, Valve Ex
- TM801228 x3

1) Stem, Seal Int
- TCH10450 x3

2) Stem, Seal Exh
- TT110650 x3

1) Spring, Valve
- TM801222 x6

2) Cap, Valve
- TM801224

1) Thermostat
- TM811034

2) Injector
- TAT110293 1

Oil, Pump
- TAM878778

Lift Pump
- TAM882462

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 88RS

(1): Check your application for proper usage.

(2): Like TMIA880621, with Inject Pump cooling connections.

(3): Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.

(4): Gear not included.

JOHN DEERE 4TNE88 88MM BORE NON TURBO

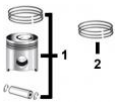
Engine Model: 4TNE88

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.46 in / 88.00 mm

Mowers		Utility Tractors		Skid Steers	Farm Tractors	Backhoe	Engine Model
1600	1620	4700	4710	7775	JD1400	110TLB	4022

1) Engine O/H Kit
- TOK4TNE88
- TOK4TNE88/10
- SPEC SHEET - 4TNE88



1) Piston & Ring Kit
- TAM879953 Std.
- TAM878641 0.010

Use 4

2) Ring Set
- TAM879901 Std.
- TAM878642 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

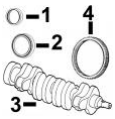
Use 5

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 4

Thrust Washers
- TMIA880555

Set of 4

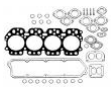


1) Front Seal
- TM800988

2) Rear Seal
- TM805278

3) Crankshaft
- TAM878619 3

4) Flywheel Ring Gear
- TCH10466 127T 1



1) O/H Gasket Set

1) TMGS4TNE88

2) Head Gasket
- TM806518

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TM801230

1) Bush, Con Rod
- TM801256 x4

2) Bolt, Con Rod
- TCH15483 x8

3) Bushing, Cam
- TMIU800573 x1

4) Connecting Rod
- TAM875391

5) Bolt, Cylinder Head
- TM801186 x18

1) Tappet
- TM801046 x8

2) Camshaft
- TAM875386 3

3) Push Rod
- TM801238 x8

Valve, Intake
- TM801220 x4

Valve, Exhaust
- TMIU800494 x4

1) Guide, Valve In
- TM801227 x4

2) Guide, Valve Ex
- TM801228 x4

1) Stem, Seal Int
- TCH10450 x4

2) Stem, Seal Exh
- TT110650 x4

1) Spring, Valve
- TM801222 x8

2) Cap, Valve
- TM801224

1) Thermostat
- TM811034

2) Injector
- TAT110293 1

Oil, Pump
- TAM878778

Lift Pump
- TAM882462

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 88RS

(1): Check your application for proper usage.

(2): Like TMIA880621, with Inject Pump cooling connections.

(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

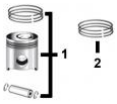
Engine Model: 3TNV84

Engine Info: 3 Cyl

Engine Dimensions: Bore: 3.30 in / 84.00 mm

Please see page **472** for a complete list of equipment models.

1) **Engine O/H Kit**
- TOK3TNV84
- TOK3TNV84/10
- SPEC SHEET - 3TNV84



1) **Piston & Ring Kit**
- TAM881978 Std.
- TAM881939 0.010

Use 3

2) **Ring Set**
- TAM881938 Std.
- TAM881940 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

Use 4

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 3

Thrust Washers
- TMIA880555

Set of 4

1) **Front Seal**
- TM800988

2) **Rear Seal**
- TM805278

3) **Crankshaft**
- TAM880894 3

4) **Flywheel Ring Gear**
- TCH10466 127T 1

1) **O/H Gasket Set**
- TMGS3015

2) **Head Gasket**
- TM806440

3) **Liquid Gasket**
- TM64850

4) **Rocker Cover Gasket**
- TM811429

1) **Bush, Con Rod**
- TM801256 x3

2) **Bolt, Con Rod**
- TCH15483 x6

3) **Bushing, Cam**
- TMIU800573 x1

4) **Connecting Rod**
- TAM875391

5) **Bolt, Cylinder Head**
- TM801186 x14

1) **Tappet**
- TM801046 x6

2) **Camshaft**
- TAM876430 4

3) **Push Rod**
- TM801238 x6

Valve, Intake
- TMIU800446 x3

Valve, Exhaust
- TMIU800494 x3

1) **Guide, Valve In**
- TM801227 x3

2) **Guide, Valve Ex**
- TM801228 x3

1) **Stem, Seal Int**
- TCH10450 x3

2) **Stem, Seal Exh**
- TT110650 x3

1) **Spring, Valve**
- TM801222 x6

2) **Cap, Valve**
- TM801224

1) **Thermostat**
- TM811034

2) **Injector**
- TAM881953 1

1) **Oil Pump**
- TAM878778 1
- TM811058SET 1

2) **Oil Cooler**
- TMIA884109 1

Electric Fuel Pump
- TAM876266
- TAT318139

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 84RS

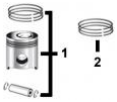
(1): Check your application for proper usage.
(2): Like TMIA880621, with Inject Pump cooling connections.
(3): Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(4): Gear not included.

Engine Model:
4TNV84

Engine Dimensions:
Bore: 3.30 in / 84.00 mm

Utility Tractors
990

1) **Engine O/H Kit**
- TOK4TNV84
- TOK4TNV84/10
- SPEC SHEET - 4TNV84



1) **Piston & Ring Kit**
- TAM881978 Std.
- TAM881939 0.010

Use 4

2) **Ring Set**
- TAM881938 Std.
- TAM881940 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

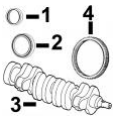
Use 5

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 4

Thrust Washers
- TMIA880555

Set of 4

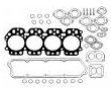


1) **Front Seal**
- TM800988

2) **Rear Seal**
- TM805278

3) **Crankshaft**
- TAM878619 3

4) **Flywheel Ring Gear**
- TCH10466 127T 1



1) **O/H Gasket Set**
- TMGS4020

2) **Head Gasket**
- TM806505

3) **Liquid Gasket**
- TM64850

4) **Rocker Cover Gasket**
- TM811123

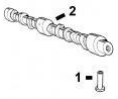
1) **Bush, Con Rod**
- TM801256 x4

2) **Bolt, Con Rod**
- TCH15483 x8

3) **Bushing, Cam**
- TMIU800573 x1

4) **Connecting Rod**
- TAM875391

5) **Bolt, Cylinder Head**
- TM801186 x18



1) **Tappet**
- TM801046 x8

2) **Camshaft**
- TAM875386 3

Valve, Intake
- TMIU800446 x4

Valve, Exhaust
- TMIU800494 x4

1) **Guide, Valve In**
- TM801227 x4

2) **Guide, Valve Ex**
- TM801228 x4

1) **Stem, Seal Int**
- TCH10450 x4

2) **Stem, Seal Exh**
- TT110650 x4

1) **Spring, Valve**
- TM801222 x8

2) **Cap, Valve**
- TM801224

1) **Thermostat**
- TM811034

2) **Injector**
- TAM881953 1

1) **Oil Pump**
- TAM878778 1
- TM811058SET 1

2) **Oil Cooler**
- TMIA884109 1

Electric Fuel Pump
- TAM876266
- TAT318139

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 84RS

(1): Check your application for proper usage.

(2): Like TMIA880621, with Inject Pump cooling connections.

(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

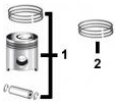
JOHN DEERE 4TNV84T 84MM BORE TURBO

Engine Model:
4TNV84T

Engine Dimensions:
Bore: 3.30 in / 84.00 mm

Mowers	Utility Tractor		Hi Power Genset		Skid Steer
1600	4044R	4049M	HRYW25T6	HRYW20T5	314G
	4049R	8700A	HYW25M6	HYW25T6	
	8800A		HYW25M5		

1) Engine O/H Kit
- TOK4TNV84T
- TOK4TNV84T/10
- SPEC SHEET - 4TNV84T



1) Piston & Ring Kit
- TMIA880354 Std.
- TMIA880355 0.010

Use 4

2) Ring Set
- TAM881938 Std.
- TAM881940 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

Use 5

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 4

Thrust Washers
- TMIA880555

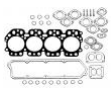
Set of 4

1) Front Seal
- TM800988

2) Rear Seal
- TM805278

3) Crankshaft
- TAM878619 3

4) Flywheel Ring Gear
- TCH10466 127T 1



1) O/H Gasket Set
- TMGS4TNV84T

2) Head Gasket
- TMIU800384

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TMIU800399

1) Bush, Con Rod
- TM801256 x4

2) Bolt, Con Rod
- TCH15483 x8

3) Bushing, Cam
- TMIU800573 x1

4) Connecting Rod
- TAM875391

5) Bolt, Cylinder Head
- TM801186 x18

1) Tappet
- TM801046 x8

2) Camshaft
- TAM875386 3

3) Push Rod
- TM801238 x8

Valve, Intake
- TMIU800391 x8

Valve, Exhaust
- TMIU800392 x8

Guide, Valve
- TM811855 x16

1) Stem, Seal Int
- TM811850 x8

2) Stem, Seal Exh
- TM811851 x8

1) Spring, Valve
- TMIU800393 x16

2) Cap, Valve
- TM801224

Thermostat
- TM811034

1) Oil Pump
- TAM878778 1
- TM811058SET 1

2) Oil Cooler
- TMIA884109 1

Electric Fuel Pump
- TAM876266
- TAT318139

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 84RS

(1): Check your application for proper usage.

(2): Like TMIA880621, with Inject Pump cooling connections.

(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

JOHN DEERE 3TNV88 88MM BORE NON TURBO

Engine Model:
3TNV88

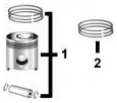
Engine Data:
JOHN DEERE ENGINE MODEL:
3016

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.46 in / 88.00 mm

Mowers		Utility Tractors		Compact Excavators		Hi Power Genset		Engine Model
1565	F1565	2720	3032E	27D	27D ZTS	HYW13M5	HYW13T5	3016
		3320	3033R	35D	35D EXC	HYW14M6	HYW14T6	
				35G		HYW14M6		

1) **Engine O/H Kit**
- TOK3TNV88
- TOK3TNV88/10
- SPEC SHEET - 3TNV88



1) **Piston & Ring Kit**
- TAM881814 Std.
- TAM881811 0.010

Use 3

2) **Ring Set**
- TAM881812 Std.
- TAM881810 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

Use 4

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 3

Thrust Washers
- TMIA880555

Set of 4

1) **Front Seal**
- TM800988

2) **Rear Seal**
- TM805278

3) **Crankshaft**
- TAM880894 3

4) **Flywheel Ring Gear**
- TCH10466 127T 1

1) **O/H Gasket Set**
- TMGS3TNE88

2) **Head Gasket**
- TM806811

3) **Liquid Gasket**
- TM64850

4) **Rocker Cover Gasket**
- TM811429

1) **Bush, Con Rod**
- TM801256 x3

2) **Bolt, Con Rod**
- TCH15483 x6

3) **Bushing, Cam**
- TMIU800573 x1

4) **Connecting Rod**
- TAM875391

5) **Bolt, Cylinder Head**
- TM801186 x14

1) **Tappet**
- TM801046 x6

2) **Camshaft**
- TAM876430 4

3) **Push Rod**
- TM801238 x6

Valve, Intake
- TM811557 x3

Valve, Exhaust
- TMIU800494 x3

1) **Guide, Valve In**
- TM801227 x3

2) **Guide, Valve Ex**
- TM801228 x3

1) **Stem, Seal Int**
- TCH10450 x3

2) **Stem, Seal Exh**
- TT110650 x3

1) **Spring, Valve**
- TM801222 x6

2) **Cap, Valve**
- TM801224

1) **Thermostat**
- TM811034

2) **Injector**
- TAM881953 1

Oil Pump
- TAM878778 1
- TM811058SET 1

Electric Fuel Pump
- TAM876266

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 88RS

Glow Plug
- TMIU800816

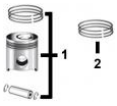
(1): Check your application for proper usage.
(2): Like TMIA880621, with Inject Pump cooling connections.
(3): Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(4): Gear not included.

Engine Model:
4TNV88

Engine Dimensions:
Bore: 3.46 in / 88.00 mm

Excavators	Backhoe Loaders	Mowers		Utility Tractors		Hi Power Genset		Farm Tractors
50D	110	1505	1515	2720	4405	HRYW107T5	HRYW20T6	JD1220
		1905		4005		HYW17T5	HYW20M5	
						HYW20M6	HYW20T6	

1) Engine O/H Kit
- TOK4TNV88
- TOK4TNV88/10
- SPEC SHEET - 4TNV88



1) Piston & Ring Kit
- TAM881814 Std.
- TAM881811 0.010

Use 4

2) Ring Set
- TAM881812 Std.
- TAM881810 0.010

Main Bearing
- TMIA880554 Std.
- TMIA880550 0.010

Use 5

Con Rod Bearing
- TMIA880563 Std.
- TMIA880568 0.010

Use 4

Thrust Washers
- TMIA880555

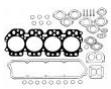
Set of 4

1) Front Seal
- TM800988

2) Rear Seal
- TM805278

3) Crankshaft
- TAM878619 3

4) Flywheel Ring Gear
- TCH10466 127T 1



1) O/H Gasket Set
- TMGS4TNE88

2) Head Gasket
- TM806518

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TM811123

1) Bush, Con Rod
- TM801256 x4

2) Bolt, Con Rod
- TCH15483 x8

3) Bushing, Cam
- TMIU800573 x1

4) Connecting Rod
- TAM875391

5) Bolt, Cylinder Head
- TM801186 x18

1) Tappet
- TM801046 x8

2) Camshaft
- TAM875386 3

3) Push Rod
- TM801238 x8

Valve, Intake
- TM811557 x4

Valve, Exhaust
- TMIU800494 x4

1) Guide, Valve In
- TM801227 x4

2) Guide, Valve Ex
- TM801228 x4

1) Stem, Seal Int
- TCH10450 x4

2) Stem, Seal Exh
- TT110650 x4

1) Spring, Valve
- TM801222 x8

2) Cap, Valve
- TM801224

1) Thermostat
- TM811034

2) Injector
- TAM881953 1

1) Oil Pump
- TAM878778 1
- TM811058SET 1

2) Oil Cooler
- TMIA884109 1

Electric Fuel Pump
- TAM876266
- TAT318139

Water Pump
- 1) TMIA880621 1
- 2) TAM880905 1
- 3) TAM881943 1
- 4) TMIA880356 2

Repair Sleeve
- 88RS

Glow Plug
- TMIU800816

(1): Check your application for proper usage.
(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

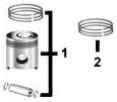
(2): Like TMIA880621, with Inject Pump cooling connections.

JOHN DEERE 4TNV98 98MM BORE NON TURBO DIRECT INJECTION

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNV98	DIRECT INJECTION	4 Cyl	Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Loaders		Engine Model	
204K	304K	4TNV98-ZSLW	4TNV98-ZPLW

1) Engine O/H Kit
- TOK4TNV98D
- TOK4TNV98D/25
- SPEC SHEET - 4TNV98



1) Piston & Ring Kit
- TMIA883345 Std.
- TMIA883345A 0.25

Use 4

2) Ring Set
- TMIA881112 Std.
- TMIA881112A .25

Main Bearing Set
- TMIA880548 Std.
- TMIA880547 0.25

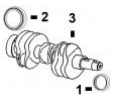
Set of 5 Pairs

Con Rod Bearing
- TMIA880564 Std.
- TMIA880569 0.25

Set of 4 Pairs

Thrust Washers
- TMIA880556

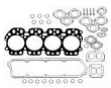
Set of 4



1) Front Seal
- TMIU801096

2) Rear Seal
- TMIU801095

3) Crankshaft
- TAT211731



1) O/H Gasket Set

1) TMGS4TNV98

2) Head Gasket
- TMIU801057 2

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TMIU801150

1) Bush, Con Rod
- TMIU801252 x4

2) Bolt, Con Rod
- TAT211751 x8

3) Bushing, Cam
- TAT211656 x1

4) Bolt, Cyl Head
- TAT211658 x18

5) Connecting Rod
- TMIA881093

1) Tappet
- TM801046 x8

2) Camshaft
- TMIA881102

5) Push Rod
- TMIU801081 x8

Valve, Intake
- TMIU801066

Valve, Exhaust
- TMIU801067

1) Guide, Valve
- TMIU801251

2) Lock, Valve
- TAM100828 x32

1) Stem, Seal Int
- TMIU800853

2) Stem, Seal Exh
- TCH10346 x8

1) Spring, Valve
- TMIU801068

Thermostat
- TAT211781 1
- TCH16879 1

Oil, Pump
- TAT212086

Electric Fuel Pump
- TAT318139

Water Pump
- TMIA883817 1

Repair Sleeve
- 98RS

(1): Check your application for proper usage.

(2): Head gasket is MLS material. Please check application for proper usage.

JOHN DEERE 4TNV98T 98MM BORE TURBO DIRECT INJECTION

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNV98T	DIRECT INJECTION	4 Cyl	Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

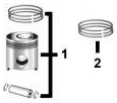
Skid Steers

318E
319E
320E
320G
323E
324E
324G
325G
326E

Engine Model

4TNV98T

1) Engine O/H Kit
- TOK4TNV98T *
- TOK4TNV98T/25 *
- SPEC SHEET - 4TNV98T



1) Piston & Ring Kit
- TMIA883163 Std.
- TMIA883163A 0.25

Use 4

2) Ring Set
- TMIA881112 Std.
- TMIA881112A .25

Main Bearing Set
- TMIA880548 Std.
- TMIA880547 0.25

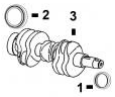
Set of 5 Pairs

Con Rod Bearing
- TMIA880564 Std.
- TMIA880569 0.25

Set of 4 Pairs

Thrust Washers
- TMIA880556

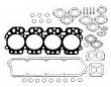
Set of 4



1) Front Seal
- TMIU801096

2) Rear Seal
- TMIU801095

3) Crankshaft
- TMIA883156 1



1) O/H Gasket Set

1) TMGS4TNV98

2) Head Gasket
- TMIU801057 2

3) Liquid Gasket
- TM64850

4) Rocker Cover Gasket
- TMIU801150

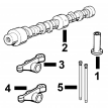
1) Bush, Con Rod
- TMIU801252 x4

2) Bolt, Con Rod
- TAT211751 x8

3) Bushing, Cam
- TAT211656 x1

4) Bolt, Cyl Head
- TAT211658 x18

5) Connecting Rod
- TMIA881093



1) Tappet
- TM801046 x8

2) Camshaft
- TMIA881102

5) Push Rod
- TMIU801081 x8

Valve, Intake
- TMIU801066

Valve, Exhaust
- TMIU801067

1) Guide, Valve
- TMIU801251

2) Lock, Valve
- TAM100828 x32

1) Stem, Seal Int
- TMIU800853

2) Stem, Seal Exh
- TCH10346 x8

1) Spring, Valve
- TMIU801068

Thermostat
- TAT211781 1
- TCH16879 1

Oil, Pump
- TMIA882626

Electric Fuel Pump
- TAT318139

Water Pump
- TMIA883817 1

Repair Sleeve
- 98RS

(1): Check your application for proper usage.

(2): Head gasket is MLS material. Please check application for proper usage.

JOHN DEERE 3029 2.9D PISTON (M) RE61467

Engine Series:
PowerTech

Engine Model:
3029

Engine Desc:
2.9D

Engine Data:
From ESN 252,768
CODE 4809
CODE 4813

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm
Pin Ø: 1.3 in / 32 mm

Con Rod (M):
R121092, R501072

Piston (M):
RE61467

Please see page **473** for a complete list of equipment models.

1) **Engine O/H Kit**
- TOK2.9D9
- TOK2.9D9A 7

2) **Engine I/F Kit**
- TIK2.9D9
- TIK2.9D9A 7
- SPEC SHEET - 3029

Piston-Liner Kit
- TRE66968

Consists of:
- a) TRE61467
- b) TRE66271
- c) TR116281
- d) TAR65507

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3

1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

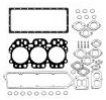
3) **Crankshaft**
- TRE521348 3

4) **Crankshaft, Gear**
- TT20094

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

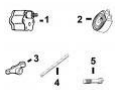
5) **Rocker Cover Gsk**
- TR106796

1) **Bush, Con Rod**
- TR504300 x3

2) **Bolt, Con Rod**
- TR80033 x6 4
- TR501124 x6 4

3) **Con Rod**
- TRE501674 10

4) **Main Bearing Cap Bolt**
- TR528387 x8 11



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE61767

3) **Rocker Arm**
- TRE31973

4) **Rocker Arm Shaft**
- TR54985

5) **Cyl Hd Cap Screw**
- TR85363 x14 2

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 1

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 1

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070 1

7) **Camshaft Kit**
- TRE55900 9

8) **Camshaft**
- TR106957 9

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR106831

2) **Insert, Valve Ex**
- TR106829

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

1) **Thermostat**
- TRE64354 180° F

2) **Water Temp Sensor**
- TRE51774 8

3) **Water Temp Sensor**
- TRE52722 8

4) **Crankshaft Sensor**
- TRE519144 8

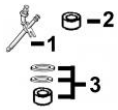
1) **Fuel Transfer Pump**
- TRE38009 8
- TRE55390 8

2) **Fuel Filter Base with Prime**
- TRE67225

3) **Turbocharger**
- TRE507842 8

Water Pump Repair Kit
- See Chart

Water Pump
- TAR97708U 5
- TRE60489 6
- TRE67185 8



1) **Injector, Pencil**
- TRE36936 8
- TRE50833 8

2) **Inj Grommet Kit**
- TMX504

3) **Seal Kit**
- TRE65201

Glow Plug
- 1) TRE502079 (11 V)
- 2) TRE504580 x3 (10 V)
- 3) TRE502668 (12 V)

(1): Helicoidal Gears.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

(4): With Machine Split Con Rod use TR80033 and With Fractured Con Rod use TR501124.

(5): (m) R73604.

(6): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(7): For used with Fractured split connecting rod.

(8): Check your application for proper usage.

(9): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(10): Fractured Split Rod.

(11): 93mm – Use with R515365 and R515366 main bearing cap.

JOHN DEERE 3029 2.9D/T PISTON (M) RE520573

Engine Series:
PowerTech

Engine Model:
3029D/T

Engine Desc:
2.9D, 2.9T

Engine Data:
CODE 4831

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3 in / 32 mm

Piston (M):
RE520573

Please see page **474** for a complete list of equipment models.

1) **Engine O/H Kit**
- TOK2.9D/T

2) **Engine I/F Kit**
- TIK2.9D/T
- SPEC SHEET - 3029

Piston-Liner Kit
- TRE520768

Consists of:
- a) TRE520573 2
- b) TRE66271
- c) TR116281
- d) TAR65507

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

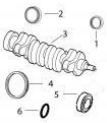
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



1) **Front Seal**
- TAR67942

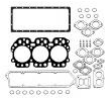
2) **Rear Seal**
- TRE44574

3) **Crankshaft**
- TRE521348

4) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

5) **Sleeve, Front**
- TR81989

6) **Packing, Sleeve**
- TH35244



1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

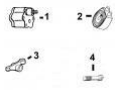
5) **Rocker Cover Gsk**
- TR106796

1) **Bush, Con Rod**
- TR504300 x3

2) **Bolt, Con Rod**
- TR80033 x6

3) **Con Rod**
- TRE507799 4

4) **Main Bearing Cap Bolt**
- TR528387 x8 7



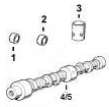
1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE61767

3) **Rocker Arm**
- TRE31973

4) **Cyl Hd Cap Screw**
- TR502511 x14 1
- TR85363 x14 1

5) **Oil Pump O'Ring**
- TR61871



1) **Lower Bushing**
- TT26321

2) **Upper Bushing**
- TT20034

3) **Cam. Follower**
- TT20073 x6

4) **Camshaft Kit**
- TRE55900 5

5) **Camshaft**
- TR106957 5

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR106831
- TR98335

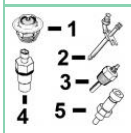
2) **Insert, Valve Ex**
- TR106829

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005



1) **Thermostat**
- TRE64354 180° F

2) **Injector**
- TRE50833 3
- TRE509896 3

3) **Water Temp Sensor**
- TRE51774 3

4) **Water Temp Sensor**
- TRE52722 3

5) **Crankshaft Sensor**
- TRE519144 3

1) **Fuel Transfer Pump**
- TRE38009 3

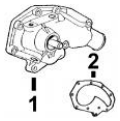
2) **Fuel Pump Electric**
- TAL155607 3

3) **Fuel Filter Base with Primer**
- TRE67225

1) **Water Pump Repair Kit**
- Without Impeller
- TRE19507 6

b) **With Impeller**
- TRE62658 6

2) **Turbocharger**
- TRE531324 3



1) **Water Pump**
- TAR97708U

2) **Water Pump Gasket**
- TT20242
- TT20268

Glow Plug
- 1) TRE502079 (11 V)
- 2) TRE504580 x3 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

(1): Check application for proper capscrew

(2): Piston includes Pin and Retainers.

(3): Check for proper application.

(4): Machine Split Rod. Can substitute fractured split rod TRE501674 if replaced in complete sets.

(5): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(6): See the Water Pump Identification Chart to make sure these part numbers are correct. You will need the water pump casting number and will need to know if you have a stamped steel pulley or a cast iron pulley.

(7): 93mm – Use with R515365 and R515366 main bearing cap.

JOHN DEERE 3029 2.9T PISTON (M) RE61270

Engine Series:
PowerTech

Engine Model:
3029

Engine Desc:
2.9T

Engine Data:
From ESN 258,847
CODE 4808

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.62 in / 41 mm

Con Rod (M):
R105011, R501073

Piston (M):
RE61270

Farm Tractors
5400
5400N

Skidders
8875

Engine Model
2.9L

1) **Engine O/H Kit**
- TOK2.9T
- TOK2.9TA 8

2) **Engine I/F Kit**
- TIK2.9T
- TIK2.9TA 8
- SPEC SHEET - 3029

Piston-Liner Kit
- TRE67426

Consists of:
- a) TRE61270
- b) TRE66271
- c) TMX3915
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3

1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

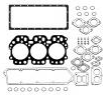
3) **Crankshaft**
- TRE521348 4

4) **Crankshaft, Gear**
- TT20094 1

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



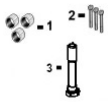
1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

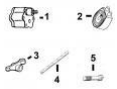
5) **Rocker Cover Gsk**
- TR106796



1) **Bush, Con Rod**
- TR57451 x3 3

2) **Bolt, Con Rod**
- TR80033 x6 5
- TR501124 x6 5

3) **Main Bearing Cap Bolt**
- TR528387 x8 11



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE61767

3) **Rocker Arm**
- TRE31973

4) **Rocker Arm Shaft**
- TR54985

5) **Cyl Hd Cap Screw**
- TR85363 x14 2

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 1

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 1

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070 1

7) **Camshaft Kit**
- TRE55900 10

8) **Camshaft**
- TR106957 10

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR106831
- TR98335

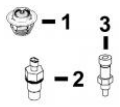
2) **Insert, Valve Ex**
- TR106829

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005



1) **Thermostat**
- TRE64354 180° F

2) **Water Temp Sensor**
- TRE52722 9

3) **Crankshaft Sensor**
- TRE519144 9

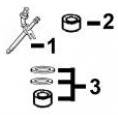
1) **Fuel Transfer Pump**
- TRE38009

2) **Fuel Pump Electric**
- TAL155607 9

3) **Fuel Filter Base with Primer**
- TRE67225

Water Pump Repair Kit
- See Chart

Water Pump
- TAR97708U 6
- TRE60489 7
- TRE67185 9



1) **Injector, Pencil**
- TRE38087

2) **KIT, GROMMET**
- TMX504

3) **Seal Kit**
- TRE64292

Glow Plug
- 1) TRE502079 (11 V)
- 2) TRE504580 x3 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

(1): Helicoidal Gears.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): After bushing installation, machine bushing to fit the shape of connecting rod before fitting piston pin.

(4): Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

(5): With Machine Split Con Rod use TR80033 and With Fractured Con Rod use TR501124.

(6): (m) R73604.

(7): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(8): For used with Fractured split connecting rod.

(9): Check your application for proper usage.

(10): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(11): 93mm – Use with R515365 and R515366 main bearing cap.

JOHN DEERE 3029 2.9T PISTON (M) RE500211

Engine Series:
PowerTech

Engine Model:
3029

Engine Desc:
Engine Numbers: 3029TF120, 3029TF270 (Up to ESN 140913)

Engine Data:
From ESN 258,847
CODE 4808

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002)= 41 mm

Con Rod (M):
R105011, R501073

Piston (M):
RE500211

Please see page **475** for a complete list of equipment models.

1) **Engine O/H Kit**
- TOK2.9T2
- TOK2.9T2A 8

2) **Engine I/F Kit**
- TIK2.9T2
- TIK2.9T2A 8
- SPEC SHEET - 3029

Piston-Liner Kit
- TRE500673

Consists of:
- a) TRE500211
- b) TRE66271
- c) TMX3915
- d) TR116281
- e) TAR65507
- f) TR54114

Main Bearing
- TRE27352 Std.
- TRE27353 0.010
- TRE27360 0.020
- TRE27368 0.030

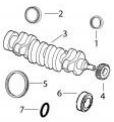
Use 3

Thrust Bearing
- TAT21139 Std.
- TAT21132 0.010
- TAT21134 0.020
- TAT21136 0.030

Use 1

Con Rod Bearing
- TRE27348 Std.
- TRE27349 0.010
- TRE27358 0.020
- TRE27364 0.030

Use 3



1) **Front Seal**
- TAR67942

2) **Rear Seal**
- TRE44574

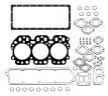
3) **Crankshaft**
- TRE521348 4

4) **Crankshaft, Gear**
- TT20094 1

5) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

6) **Sleeve, Front**
- TR81989

7) **Packing, Sleeve**
- TH35244



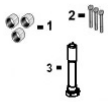
1) **O/H Gasket Set**
- TRE501578

2) **Head Gasket Set**
- TRE38850

3) **Head Gasket**
- TR97356

4) **Oil Pan Gasket**
- TR97341

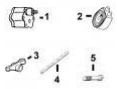
5) **Rocker Cover Gsk**
- TR106796



1) **Bush, Con Rod**
- TR57451 x3 3

2) **Bolt, Con Rod**
- TR80033 x6 5
- TR501124 x6 5

3) **Main Bearing Cap Bolt**
- TR528387 11



1) **Pump, Oil**
- TRE55343

2) **Oil Cooler**
- TRE61767

3) **Rocker Arm**
- TRE31973

4) **Rocker Arm Shaft**
- TR54985

5) **Cyl Hd Cap Screw**
- TR85363 x14 2

6) **Oil Pump O'Ring**
- TR61871

1) **Lower Gear**
- TAT24252 1

2) **Lower Bushing**
- TT26321

3) **Upper Gear**
- TAT18009 1

4) **Upper Bushing**
- TT20034

5) **Cam. Follower**
- TT20073 x6

6) **Cam. Gear**
- TT20070 1

7) **Camshaft Kit**
- TRE55900 10

8) **Camshaft**
- TR106957 10

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) Insert, Valve In
- TR106831
- TR98335

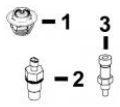
2) Insert, Valve Ex
- TR106829

1) Seal, Valve
- TRE31617

2) Lock, Valve
- TR91889

1) Spring, Valve
- TR26125

2) Rotator, Valve
- TRE60005



1) **Thermostat**
- TRE64354 180° F

2) **Water Temp Sensor**
- TRE52722 9

3) **Crankshaft Sensor**
- TRE519144 9

1) **Fuel Transfer Pump**
- TRE38009 9
- TRE55390 9

2) **Fuel Pump Electric**
- TAL155607 9

3) **Fuel Filter Base with Primer**
- TRE67225

Water Pump Repair Kit
- See Chart

Water Pump
- TAR97708U 6
- TRE60489 7
- TRE67185 9

1) **Injector, Pencil**
- TRE38087 9
- TRE50833 9
- TRE531436 9

2) **Inj Grommet Kit**
- TMX504

3) **Seal Kit**
- TRE64292

Glow Plug
- 1) TRE502079 (11 V)
- 2) TRE504580 x3 (10 V)

Air Heater
- 3) TRE502668 (12 V)

(1): Helicoidal Gears.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): After bushing installation, machine bushing to fit the shape of connecting rod before fitting piston pin.

(4): Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

(5): With Machine Split Con Rod use TR80033 and With Fractured Con Rod use TR501124.

(6): (m) R73604.

(7): (m) R100812, (m) R127337, (m) R127918, (m) R55164.

(8): For used with Fractured split connecting rod.

(9): Check your application for proper usage.

(10): Camshaft has a 40 mm wide front bearing journal and made for a rear press in tachometer drive, it will replace early camshafts with narrower front bearing journal without any issue. Replaces camshafts marked T20015, T20016, R79643, R106957 and RE522311.

(11): 93mm – Use with R515365 and R515366 main bearing cap.

JOHN DEERE 4024TL, TIER 3, PISTON (M) RE522094

Engine Series: PowerTech

Engine Model: 4024TL

Engine Desc: Tier 3

Engine Info: 4 Cyl

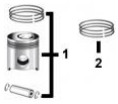
Engine Dimensions: Bore: 3.39 in / 86 mm Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M): RE522094

Tractor		Engine Model		Engine Model - Confirm Piston With Serial	
4120	4320	4024TLV02	4024TLV05	4024TF270	4024TF281
4520	4720	4024TLV06	4024TLV07		
		4024TLV01	4024TLV03		
		4024TLV08	4024TLV09		
		4024TLV10	4024TT012		

1) **Engine O/H Kit**
- TOK4024TL
- TOK4024TLA
- TOK4024TLB

2) **Engine I/F Kit**
- TIK4024TL
- TIK4024TLA
- TIK4024TLB
- SPEC SHEET - 4024TL



1) **Piston & Ring Kit**
- TRE543435 Std
- TRE524565 0.25 [3]
- TRE524566 0.50 [3]

2) **Ring Set**
- TRE543439 Std
- TRE524567 0.25
- TRE524568 0.50

Use 4 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

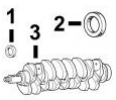
Use 5 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

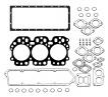
Use 4 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE524593 [4]

2) **Head Gasket**
- TRE528708 Std.
- TRE535449 O/S [2]

3) **Oil Pan Gasket**
- TR528262

1) **Connecting Rod Bushing**
- TR502502 x4

2) **Connecting Rod**
- TRE544411 x4

3) **Bolt, Conn. Rod**
- TR502503 x8

4) **Cylinder Head Bolt**
- TR516692 x2
- T19M8986 x5
- TR516693 x8

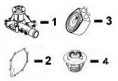
1) **Cam Bearing**
- TR504808 x4

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x8

4) **Push Rod**
- TRE517136 x1

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545572

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x4

Valve, Exhaust
- TR502455 x4

Insert, Valve In
- TR526671 x4

Insert, Valve Ex
- TR526672 x4

Seal, Valve
- TRE532712 x8

Lock, Valve
- TR502371 x16

Spring, Valve
- TR522728 x8

Rotator, Valve
- TR502367 x8

Fuel Transfer pump
- TRE532211 [1]
- TRE532210 Includes primer [1]

Balancer Shaft Bushing
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x4

1) **Glow Plug**
- TRE505867 x4

2) **Nozzle Seal Kit**
- TRE521175 x4

(1): Check application for proper use

(2): Use for Oversize Piston Kits.

(3): Use Oversize Head Gasket.

(4): Does not include the head gasket, crank seals, valve seals and the oil pan gasket.

JOHN DEERE 4024TT EARLY, TIER 2, PISTON (M) RE516347

Engine Series: PowerTech

Engine Model: 4024TT

Engine Desc: Tier 2

Engine Info: 4 Cyl

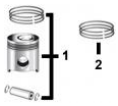
Engine Dimensions: Bore: 3.39 in / 86 mm Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M): RE516347

Loader	Skid Steer Loader	Compact Track Loader	Engine Model	Engine Model - Confirm Piston With Serial
244J	317 320	CT322	4024TF220 4024TT001 4024TT002	4024TF270 4024TF271 4024TF272 4024TT003

1) Engine O/H Kit
- TOK4024TTE
- TOK4024TTEA
- TOK4024TTEB

2) Engine I/F Kit
- TIK4024TTE
- TIK4024TTEA
- TIK4024TTEB
- SPEC SHEET - 4024TL



1) Piston & Ring Kit
- TRE520936 Std
- TRE524563 0.25 — 3
- TRE524564 0.50 — 3

2) Ring Set
- TRE543439 Std
- TRE524567 0.25
- TRE524568 0.50

Use 4 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

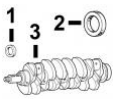
Use 5 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

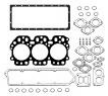
Use 4 sets



1) Front Oil Seal
- TAR67942

2) Rear Oil Seal
- TRE44574

3) Crankshaft



1) O/H Gasket Set
- TRE524593 — 4

2) Head Gasket
- TRE528708 Std.
- TRE535449 O/S — 2

3) Oil Pan Gasket
- TR528262

1) Connecting Rod Bushing
- TR502502 x4

2) Connecting Rod
- TRE544411 x4

3) Bolt, Conn. Rod
- TR502503 x8

4) Cylinder Head Bolt
- TR516692 x2
- T19M8986 x5
- TR516693 x8

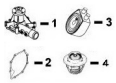
1) Cam Bearing
- TR504808 x4

2) Cam Bearing Roller
- TRE518215 x1

3) Tappet
- TDZ124185 x8

4) Push Rod
- TRE517136 x1

5) Camshaft Plug
- TR504965 x1



1) Water Pump
- TRE545572

2) Gasket, Water Pump
- TR533334

3) Oil Cooler
- TRE515469

4) Thermostat
- TRE526915

Valve, Intake
- TR502454 x4

Valve, Exhaust
- TR502455 x4

Insert, Valve In
- TR526671 x4

Insert, Valve Ex
- TR526672 x4

Seal, Valve
- TRE532712 x8

Lock, Valve
- TR502371 x16

Spring, Valve
- TR522728 x8

Rotator, Valve
- TR502367 x8

Fuel Transfer pump
- TRE532211 — 1
- TRE532210 Includes primer — 1

Balancer Shaft Bushing
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x4

1) Glow Plug
- TRE505867 x4

2) Nozzle Seal Kit
- TRE521175 x4

(1): Check application for proper use

(2): Use for Oversize Piston Kits.

(3): Use Oversize Head gasket.

(4): Does not include the head gasket, crank seals, valve seals and the oil pan gasket.

JOHN DEERE 4024TT LATE, TIER 2 & 3, PISTON (M) RE526785

Engine Series: PowerTech

Engine Model: 4024TT

Engine Desc: Tier 2 & 3

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.39 in / 86 mm Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M): RE526785

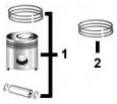
Loader
244J

Engine Model
4024TF280

Engine Model - Confirm Piston With Serial
4024TF270
4024TF271
4024TF272
4024TF281
4024TT003

1) **Engine O/H Kit**
- TOK4024TTL
- TOK4024TTLA
- TOK4024TTLB

2) **Engine I/F Kit**
- TIK4024TTL
- TIK4024TTLA
- TIK4024TTLB
- SPEC SHEET - 4024TL



1) **Piston & Ring Kit**
- TRE527574 Std
- TRE527574A 0.25 3
- TRE527574B 0.50 3

2) **Ring Set**
- TRE543439 Std
- TRE524567 0.25
- TRE524568 0.50

Use 4 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

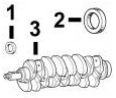
Use 5 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

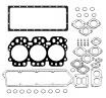
Use 4 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE524593 4

2) **Head Gasket**
- TRE528708 Std.
- TRE535449 O/S 2

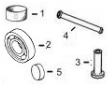
3) **Oil Pan Gasket**
- TR528262

1) **Connecting Rod Bushing**
- TR502502 x4

2) **Connecting Rod**
- TRE544411 x4

3) **Bolt, Conn. Rod**
- TR502503 x8

4) **Cylinder Head Bolts**
- TR516692 x2
- T19M8986 x5
- TR516693 x8



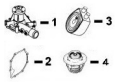
1) **Cam Bearing**
- TR504808 x4

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x8

4) **Push Rod**
- TRE517136 x1

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545572

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x4

Valve, Exhaust
- TR502455 x4

Insert, Valve In
- TR526671 x4

Insert, Valve Ex
- TR526672 x4

Seal, Valve
- TRE532712 x8

Lock, Valve
- TR502371 x16

Spring, Valve
- TR522728 x8

Rotator, Valve
- TR502367 x8

Fuel Transfer pump
- TRE532211 1
- TRE532210 Includes primer 1

Balancer Shaft Bushing
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x4

1) **Glow Plug**
- TRE505867 x4

2) **Nozzle Seal Kit**
- TRE521175 x4

(1): Check application for proper use
(2): Use for Oversize Piston Kits.
(3): Use Oversize Head Gasket.
(4): Does not include the head gasket, crank seals, valve seals and the oil pan gasket.

JOHN DEERE 4024HF, TIER 3, PISTON (M) RE527622

Engine Series: PowerTech

Engine Model: 4024HF

Engine Desc: Tier 3

Engine Info: 4 Cyl

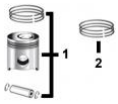
Engine Dimensions: Bore: 3.39 in / 86 mm Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M): RE527622

Loader	Skid Steer Loader		Compact Track Loader		Tractor		Engine Model
244J	318D	320D	319D	323D	4520	4720	4024HLV11 4024HF285 4024HF295 4024HF297 4024HT011 4024HT015

1) **Engine O/H Kit**
- TOK4024HF
- TOK4024HFA
- TOK4024HFB

2) **Engine I/F Kit**
- TIK4024HF
- TIK4024HFA
- TIK4024HFB
- SPEC SHEET - 4024TL



1) **Piston & Ring Kit**
- TRE536353 Std
- TRE536353A 0.25 [3]
- TRE536353B 0.50 [3]

2) **Ring Set**
- TRE533955 Std
- TRE533955A 0.25
- TRE533955B 0.50

Use 4 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

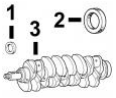
Use 5 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

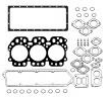
Use 4 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE524593 [4]

2) **Head Gasket**
- TRE528708 Std.
- TRE535449 O/S [2]

3) **Oil Pan Gasket**
- TR528262

1) **Connecting Rod Bushing**
- TR502502 x4

2) **Connecting Rod**
- TRE544411 x4

3) **Bolt, Conn. Rod**
- TR502503 x8

4) **Cylinder Head Bolts**
- TR516692 x2
- T19M8986 x5
- TR516693 x8

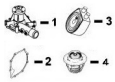
1) **Cam Bearing**
- TR504808 x4

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x8

4) **Push Rod**
- TRE517136 x1

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545572

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x4

Valve, Exhaust
- TR502455 x4

Insert, Valve In
- TR526671 x4

Insert, Valve Ex
- TR526672 x4

Seal, Valve
- TRE532712 x8

Lock, Valve
- TR502371 x16

Spring, Valve
- TR522728 x8

Rotator, Valve
- TR502367 x8

Fuel Transfer pump
- TRE532211 [1]
- TRE532210 Includes primer [1]

1) **Balancer Shaft Bushing**
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x4

1) **Injection Nozzle**
- TRE529390 x4

2) **Nozzle seal kit**
- TRE532825 x4

3) **Glow Plug**
- TRE505867 x4

(1): Check Application for proper use

(2): Use for Oversize Piston Kits.

(3): Use Oversize Head Gasket.

(4): Does not include the head gasket, crank seals, valve seals and the oil pan gasket.

JOHN DEERE 4045 4.5T/H PISTON (M) RE55512/RE505102

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
4.5T/H

Engine Data:
CODE 4809, 4822

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in /(+/- .0002) = 41 mm

Con Rod (M):
R114081 (Machined) (15), R500335 (Fractured) (15)

Piston (M):
RE55512, RE505102

Please see page **476** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE66094
- TRE66094A [19]

2) **Engine I/F Kit**
- TIK66094
- TIK66094A [19]
- Spec Sheet - TRE66093 TRE66094

Piston-Liner Kit
- TRE507850 (RE505112)

Consists of:
- a) TRE55512
- b) TRE66820 [16]
- c) TR123177
- d) TR116383
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 [9]

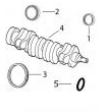
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 [9]

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 [9]

Use 4



1) **Front Seal**
- TRE505515 [7]

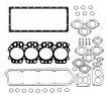
2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE504638 [12]
- TRE506195 [11]

5) **Seal**
- TH35244

6) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE501455 [17]

2) **Head Gasket Set**
- TRE66082

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 [3]
- TR123352 [2]

5) **Rocker Cov Gsk**
- TR123542

6) **Timing Cover Gsk**
- TR123421
- TR123425

7) **Turbo Gasket**
- TR123570

1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR114083 x8 [1]
- TR501124 x8 [1]

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Camshaft**
- TRE56375 [5]

6) **Bal. Shaft R/H**
- TRE500448

7) **Bal. Shaft L/H**
- TRE500449

8) **Cam Follower**
- TR123565 x8

9) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR85363 x18 [4]

2) **Tensioner, Belt**
- TRE518097 [9]
- TRE68715 [9]

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE504911 [9]

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

1) **Thermostat**
- TRE522076 180° F [9]
- TRE528652 180° F [9]
- TDZ100553 180° F [9]
- TRE64354 180° F [9]

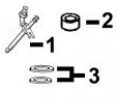
2) **Thermostat Cover**
- TR501130 [9]

3) **Water Temp Sensor**
- TRE51774 [9]

4) **Water Temp Sensor**
- TRE52722 [9]

5) **Oil Pressure Sensor**
- TRE167207 [9]

6) **Crankshaft Sensor**
- TRE519144 [9]



1) **Injector, Pencil**
- TRE60062 (Non Turbo)
- TRE48786 (Turbo)
- TRE531436 [10]

2) **Inj Grommet Kit**
- TMX504

3) **Seal**
- TR92352
- TR48000

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 [21]
- TR535005 x10 [22]

1) **Fuel Transfer Pump**
- TRE66153 [6]
- TRE68345 [13]
- TRE502513 [14]

2) **Fuel Pump Electric**
- TAL155607 [9]

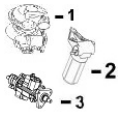
3) **Fuel Pump Electric**
- TRE509530 [9]

4) **Fuel Pump Kit**
- TRE505825 [9]

5) **Injection Pump Gear**
- TR132267 60T [9]

6) **Idler Gear, Lower**
- TRE56369 43T [9]

7) **Idler Gear, Upper**
- TRE508932 49T [9]



1) **Turbocharger**
- TRE505047 [9]
- TRE506261 [9]
- TRE508657 [9]
- TRE71550 [9]

2) **Fuel Filter Base with Primer**
- TRE67225

3) **Fuel Injection Pump**
- TRE568070 [20] [9]
- TRE568071 [20] [9]

(1): Use TR114083 with Machine Split Con Rods, and use TR501124 with Fractured Split Con Rods.

(2): Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.

(3): Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5): (m) R135439, R132324, R134213.

(6): Line Connections are both threaded.

(7): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(8): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(9): Check application for proper usage.

(10): Use with Stanadyne DE10 Injection Pump.

(11): Taper Nose.

(12): Straight Nose.

(13): Line connections are one hose barb & one threaded.

(14): Line connections are two hose barbs.

(15): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(16): Not to be used with pistons marked RE509540.

(17): Our gasket sets do not include the front and rear crankshaft seals

(19): w/C. Rod R500000.Use TR114083 with Machine Split Con Rods, and use TR501124 with Fractured Split Con Rods.

(20): This part is non-returnable.

(21): 93mm – Use with R515365 and R515366 main bearing cap.

(22): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE527039 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
2 Valve per Cylinder
CODE 4838

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE527039

Please see page **477** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE532715

2) **Engine I/F Kit**
- TIK532715
- Spec Sheet - TRE532715

Piston-Liner Kit
- TRE536083

Consists of:
- a) TRE527039
- b) TRE527844
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

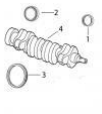
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 4



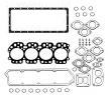
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T) — 5
- TR28811 (129T)

4) **Crankshaft**
- TRE504638 — 4
- TRE506195 — 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE532713 — 10

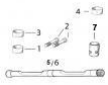
2) **Head Gasket Set**
- TRE532842

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 — 5
- TR521493 — 5

5) **Rocker Cov Gsk**
- TR123542 — 5
- TR524468 — 5

6) **Turbo Gasket**
- TR123570



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

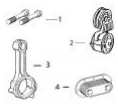
4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H



1) **Cyl Hd Cap Screw**
- TR85363 x18 — 5
- TR502511 x18 — 5

2) **Tensioner, Belt**
- TRE518097 — 5
- TRE68715 — 5

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR106831 Std.

2) **Insert, Valve Ex**
- TR106829 Std.

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE528652 180° F — 5
- TDZ100553 180° F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100216 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111137 — 5
- TDZ111140 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 — 12
- TR535005 x10 — 13

1) **Turbocharger**
- TRE508657 — 5
- TRE548726 — 5
- TRE548734 — 5

2) **Fuel Filter Base with Primer**
- TRE67225

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Taper Nose.

(4): Straight Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE521616 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder
CODE 4835

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in /(+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE521616

Please see page **478** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE536969

2) **Engine I/F Kit**
- TIK536969
- Spec Sheet - 4045T 16 Valve

Piston-Liner Kit
- TRE524450

Consists of:
- a) TRE521616
- b) TRE524453
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

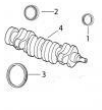
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 4



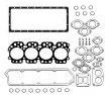
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T) — 5
- TR28811 (129T) — 5

4) **Crankshaft**
- TRE504638 — 4
- TRE506195 — 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TR536962 — 10

2) **Head Gasket Set**
- TRE536967

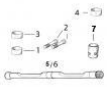
3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 — 5
- TR521493 — 5

5) **Rocker Cov Gsk**
- TR524498
- TR524499

6) **Timing Cover Gsk**
- TR526944 — 5
- TR526945 — 5

7) **Turbo Gasket**
- TR123570



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR502511 x18

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std — 5
- TRE518080 Std — 5

Valve, Exhaust
- TRE518081 Std.

1) **Insert, Valve In**
- TRE518082 Std.

2) **Insert, Valve Ex**
- TRE518083 Std.

1) **Seal, Valve**
- TRE526519 x16 — 5
- TRE519115 x16 — 5

2) **Lock, Valve**
- TR502371 x32 — 5

1) **Spring, Valve**
- TR518872 x16 — 5
- TRE516486 x16 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180° F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100216 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

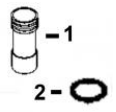
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111137 — 5
- TDZ111140 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 — 12
- TR535005 x10 — 13



1) **Injector Tube**
- TRE543935 x4

2) **Injector O-Ring**
- TRE528349
- TRE530609

1) **Turbocharger**
- TRE508657 — 5

2) **Fuel Filter Base with Primer**
- TRE67225

3) **Cylinder Head**
- TR520109UF — 14

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Taper Nose.

(4): Straight Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

(14): Bare & unfinished. Head Includes injector sleeves, valve seats and guides.

JOHN DEERE 4045 4.5T/H PISTON (M) RE515037 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE515037

Please see page **479** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE526972

2) **Engine I/F Kit**
- TIK526972
- Spec Sheet - 4045T 16 Valve

Piston-Liner Kit
- TRE516227

Consists of:
- a) TRE515037
- b) TRE66820
- c) TR502755
- d) TR116383
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

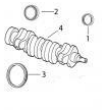
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 4



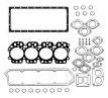
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T) — 5
- TR28811 (129T) — 5

4) **Crankshaft**
- TRE504638 — 4
- TRE506195 — 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE536962 — 10

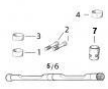
2) **Head Gasket Set**
- TRE536967

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 — 5
- TR521493 — 5

5) **Rocker Cov Gsk**
- TR524498
- TR524499

6) **Turbo Gasket**
- TR123570



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR502511 x18

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734 — 5
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Housing**
- TR123417

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std — 5
- TRE518080 Std — 5

Valve, Exhaust
- TRE518081 Std.

1) **Insert, Valve In**
- TRE518082 Std.

2) **Insert, Valve Ex**
- TRE518083 Std.

1) **Seal, Valve**
- TRE526519 x16 — 5
- TRE519115 x16 — 5

2) **Lock, Valve**
- TR502371 x32 — 5

1) **Spring, Valve**
- TR518872 x16 — 5
- TRE516486 x16 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180° F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

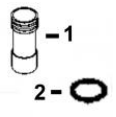
5) **Fuel Pressure Sensor**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111137 — 5
- TDZ111140 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 — 12
- TR535005 x14 — 13



1) **Injector Tube**
- TRE543935 x4

2) **Injector O-Ring**
- TRE528349
- TRE530609

1) **Turbocharger**
- TRE508657 — 5

2) **Fuel Filter Base with Primer**
- TRE67225

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Taper Nose.

(4): Straight Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(11): TRE500734 supplied with a cast iron impeller; TRE500734P supplied with a resin impeller.

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE507758 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder
CODE 4825

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE507758

Farm Tractors
6430
6534
7130

Loader Backhoes
120

Forwarders
1010D
1010E
810D
810E

Wheel Loaders
444HCL
TC444H

Crawler Dozers
450G
455G
550G
550H
555G
650G

Skid Steers
280
280 Series II

Engine Model
4045HF475

1) **Engine O/H Kit**
- TRE526973

2) **Engine I/F Kit**
- TIK526973
- Spec Sheet - 4045T 16 Valve

Piston-Liner Kit
- TRE516228

Consists of:
- a) TRE507758
- b) TRE516268
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

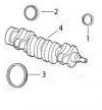
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 4



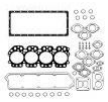
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T) — 5
- TR28811 (129T) — 5

4) **Crankshaft**
- TRE504638 — 4
- TRE506195 — 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE536962 — 10

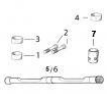
2) **Head Gasket Set**
- TRE536967

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 — 5
- TR521493 — 5

5) **Rocker Cov Gsk**
- TR524498
- TR524499

6) **Turbo Gasket**
- TR123570



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR502511 x18

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std — 5
- TRE518080 Std — 5

Valve, Exhaust
- TRE518081 Std.

1) **Insert, Valve In**
- TRE518082 Std.

2) **Insert, Valve Ex**
- TRE518083 Std.

1) **Seal, Valve**
- TRE526519 x16 — 5
- TRE519115 x16 — 5

2) **Lock, Valve**
- TR502371 x32 — 5

1) **Spring, Valve**
- TR518872 x16 — 5
- TRE516486 x16 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180° F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

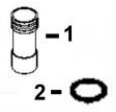
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111137 — 5
- TDZ111140 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 — 12
- TR535005 x10 — 13



1) **Injector Tube**
- TRE543935 x4

2) **Injector O-Ring**
- TRE528349
- TRE530609

1) **Turbocharger**
- TRE508657 — 5

2) **Fuel Filter Base with Primer**
- TRE67225

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Taper Nose.

(4): Straight Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(11): TRE500734 supplied with a cast iron impeller; TRE500734P supplied with a resin impeller.

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE515037 TIER 2 & TIER 3 (2)

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder
CODE 4837

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE515037

Please see page **480** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE546978

2) **Engine I/F Kit**
- TIK546978
- Spec Sheet - 4045T 16 Valve

Piston-Liner Kit
- TRE530616

Consists of:
- a) TRE515037
- b) TRE530613
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

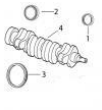
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 4



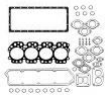
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T) — 5
- TR28811 (129T) — 5

4) **Crankshaft**
- TRE504638 — 4
- TRE506195 — 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TR536962 — 10

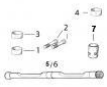
2) **Head Gasket Set**
- TRE536967

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 — 5
- TR521493 — 5

5) **Rocker Cov Gsk**
- TR524498
- TR524499

6) **Turbo Gasket**
- TR123570



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR502511 x18

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734 — 5
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std — 5
- TRE518080 Std — 5

Valve, Exhaust
- TRE518081 Std.

1) **Insert, Valve In**
- TRE518082 Std.

2) **Insert, Valve Ex**
- TRE518083 Std.

1) **Seal, Valve**
- TRE526519 x16 — 5
- TRE519115 x16 — 5

2) **Lock, Valve**
- TR502371 x32 — 5

1) **Spring, Valve**
- TR518872 x16 — 5
- TRE516486 x16 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180° F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100216 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

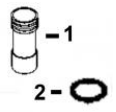
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111137 — 5
- TDZ111140 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 — 12
- TR535005 x10 — 13



1) **Injector Tube**
- TRE543935 x4

2) **Injector O-Ring**
- TRE528349
- TRE530609

1) **Turbocharger**
- TRE508657 — 5

2) **Fuel Filter Base with Primer**
- TRE67225

3) **Cylinder Head**
- TR520109UF — 14

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Taper Nose.

(4): Straight Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(11): TRE500734 supplied with a cast iron impeller; TRE500734P supplied with a resin impeller.

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

(14): Bare & unfinished. Head Includes injector sleeves, valve seats and guides.

JOHN DEERE 4045 4.5T/H PISTON (M) RE545770 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
2 Valve per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE545770

Please see page **481** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ105908

2) **Engine I/F Kit**
- TIK105908

Piston-Liner Kit
- TDZ109364

Consists of:
- a) TRE545770
- b) TRE507852
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

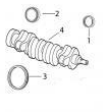
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 4



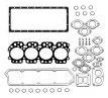
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T) — 5
- TR28811 (129T)

4) **Crankshaft**
- TRE504638 — 4
- TRE506195 — 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE532713 — 10

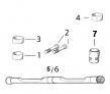
2) **Head Gasket Set**
- TRE532842

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 — 5
- TR521493 — 5

5) **Rocker Cov Gsk**
- TR123542 — 5
- TR524468 — 5

6) **Turbo Gasket**
- TR123570



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR85363 x18 — 5
- TR502511 x18 — 5

2) **Tensioner, Belt**
- TRE518097 — 5
- TRE68715 — 5

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.

2) **Insert, Valve Ex**
- TR85687 Std.

1) **Seal, Valve**
- TRE31617 x8

2) **Lock, Valve**
- TR91889 x16

1) **Spring, Valve**
- TR26125 x8

2) **Rotator, Valve**
- TRE60005 x8 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE528652 180° F — 5
- TDZ100553 180° F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100214 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

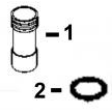
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111137 — 5
- TDZ111140 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 — 13
- TR535005 x10 — 14



1) **Injector Tube**
- TRE527456k x6 — 12

2) **Injector O-Ring**
- TRE530609 x6

1) **Turbocharger**
- TRE558245 — 5
- TRE567576 — 5
- TRE548726 — 5

2) **Fuel Filter Base with Primer**
- TRE67225

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Taper Nose.

(4): Straight Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(12): Includes O-Ring TRE530609

(13): 93mm – Use with R515365 and R515366 main bearing cap.

(14): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045D 4.5D PISTON (M) RE59279/RE505101

Engine Series:
PowerTech

Engine Model:
4045D

Engine Desc:
4.5D

Engine Data:
CODE
4801
4833

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) 35 mm

Con Rod (M):
R123959 (Machined) (15) / R500000 (Fractured) (15)

Piston (M):
RE59279, RE505101

Please see page **482** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE66092
- TRE66092A 18

2) **Engine I/F Kit**
- TIK66092
- TIK66092A 18
- Spec Sheet - TRE66092

Piston-Liner Kit
- TRE65966 (RE505110)

Consists of:
- a) TRE59279
- b) TRE66271
- c) TR123178
- d) TR116383
- e) TAR65507
- f) TM41029

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 8

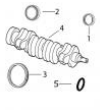
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 8

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 8

Use 4



1) **Front Seal**
- TRE505515 7

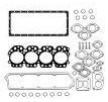
2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE504638 12
- TRE506195 11

5) **Seal**
- TH35244

6) **Crank Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE501455 16

2) **Head Gasket Set**
- TRE66082

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 3
- TR123352 2

5) **Rocker Cov Gsk**
- TR123542

6) **Timing Cover Gsk**
- TR123421
- TR123425

7) **Turbo Gasket**
- TR123570

1) **Bush, Con Rod**
- TR123960 x4

2) **Bolt, Con Rod**
- TR114083 x8 1
- TR501124 x8 1

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Camshaft**
- TRE56375 5

6) **Bal. Shaft R/H**
- TRE500448

7) **Bal. Shaft L/H**
- TRE500449

8) **Cam Follower**
- TR123565 x8

9) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR85363 x18 4

2) **Tensioner, Belt**
- TRE518097 9
- TRE68715 9

3) **Con Rod**
- TRE500002

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE504911 9

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60062

1) **Thermostat**
- TRE522076 180° F 9
- TRE528652 180º F 9
- TDZ100553 180° F 9
- TRE64354 180° F 9

2) **Thermostat Cover**
- TR501130 9

3) **Water Temp Sensor**
- TRE51774 9

4) **Water Temp Sensor**
- TRE52722 9

5) **Oil Pressure Sensor**
- TRE167207 9

6) **Crankshaft Sensor**
- TRE519144 9

1) **Injector, Pencil**
- TRE60062 (Non Turbo)
- TRE48786 (Turbo)
- TRE531436 10

2) **Inj Grommet Kit**
- TMX504

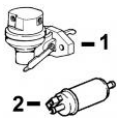
3) **Seal**
- TR92352
- TR48000

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Fuel Filter Base with Primer**
- TRE67225

5) **Main Bearing Cap Bolt**
- TR528387 x10 19
- TR535005 x10 20



1) **Fuel Transfer Pump**
- TRE66153 6
- TRE68345 13
- TRE502513 14

2) **Fuel Pump Electric**
- TAL155607 9

3) **Injection Pump Gear**
- TR132267 60T 9

4) **Idler Gear, Lower**
- TRE56369 43T 9

5) **Idler Gear, Upper**
- TRE508932 49T 9

(1): Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2): Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
(3): Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.
(4): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5): (m) R135439, R132324, R134213.
(6): Line Connections are both threaded.
(7): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(8): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9): Check application for proper usage.
(10): Use with Stanadyne DE10 Injection Pump.
(11): Taper Nose.
(12): Straight Nose.
(13): Line connections are one hose barb & one threaded.
(14): Line connections are two hose barbs.
(15): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.
(16): Our gasket sets do not include the front and rear crankshaft seals
(18): Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(19): 93mm – Use with R515365 and R515366 main bearing cap.
(20): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045T 4.5T PISTON (M) RE59277/RE505100

Engine Series:
PowerTech

Engine Model:
4045T

Engine Desc:
4.5T

Engine Data:
CODE 4803, 4823

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R123959 (Machined) (16), R500000 (Fractured) (16),

Piston (M):
RE59277, RE505100 (1)

Please see page **483** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE66093
- TRE66093A 19

2) **Engine I/F Kit**
- TIK66093
- TIK66093A 19
- Spec Sheet - TRE66093 TRE66094

Piston-Liner Kit
- TRE507920 (RE515372)

Consists of:
- a) TRE515372
- b) TRE66820
- c) TR123178
- d) TR116383
- e) TAR65507
- f) TM41029

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 8

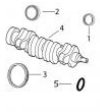
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 8

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 8

Use 4



1) **Front Seal**
- TRE505515 9

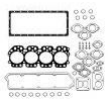
2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE504638 13
- TRE506195 12

5) **Seal**
- TH35244

6) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE501455 17

2) **Head Gasket Set**
- TRE66082

3) **Head Gasket**
- TR116515

4) **Oil Pan Gasket**
- TR97342 4
- TR123352 3

5) **Rocker Cover Gsk**
- TR123542

6) **Timing Cover Gsk**
- TR123421
- TR123425

7) **Turbo Gasket**
- TR123570

1) **Bush, Con Rod**
- TR123960 x4

2) **Bolt, Con Rod**
- TR114083 x8 2
- TR501124 x8 2

3) **Bush, Bal. Shaft**
- TR115299 x6

4) **Bush, Camshaft**
- TR119874 x1

5) **Camshaft**
- TRE56375 6

6) **Bal. Shaft R/H**
- TRE500448

7) **Bal. Shaft L/H**
- TRE500449

8) **Cam Follower**
- TR123565 x8

9) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H

1) **Cyl Hd Cap Screw**
- TR85363 x18 5

2) **Tensioner, Belt**
- TRE518097 10
- TRE68715 10

3) **Con Rod**
- TRE500002

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE504911 10

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005

1) **Thermostat**
- TRE522076 180° F 10
- TRE528652 180° F 10
- TDZ100553 180° F 10
- TRE64354 180° F 10

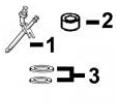
2) **Thermostat Cover**
- TR501130 10

3) **Water Temp Sensor**
- TRE51774 10

4) **Water Temp Sensor**
- TRE52722 10

5) **Oil Pressure Sensor**
- TRE167207 10

6) **Crankshaft Sensor**
- TRE519144 10



1) **Injector, Pencil**
- TRE60062 (Non Turbo)
- TRE48786 (Turbo)
- TRE531436 11

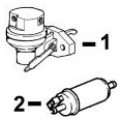
2) **Inj Grommet Kit**
- TMX504

3) **Seal**
- TR92352
- TR48000

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x4 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x10 20
- TR535005 x10 21



1) **Fuel Transfer Pump**
- TRE66153 7
- TRE68345 14
- TRE502513 15

2) **Fuel Pump Electric**
- TAL155607 10

3) **Injection Pump Gear**
- TR132267 60T 10

4) **Idler Gear, Lower**
- TRE56369 43T 10

5) **Idler Gear, Upper**
- TRE508932 49T 10

1) **Turbocharger**
- TRE505047 10
- TRE508657 10
- TRE71550 10

2) **Fuel Filter Base with Primer**
- TRE67225

(1): These marking numbers RE59277, RE505100 require to use Ring Set TRE66271. Have been discontinued by John Deere

(2): Use TR114083 with Machine Split Con Rods, and use TR501124 with Fractured Split Con Rods.

(3): Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.

(4): Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(5): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(6): (m) R135439, R132324, R134213.

(7): Line Connections are both threaded.

(8): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(9): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(10): Check application for proper usage.

(11): Use with Stanadyne DE10 Injection Pump.

(12): Taper Nose.

(13): Straight Nose.

(14): Line connections are one hose barb & one threaded.

(15): Line connections are two hose barbs.

(16): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(17): Our gasket sets do not include the front and rear crankshaft seals

(19): w/C. Rod R500000.These marking numbers RE59277, RE505100 require to use Ring Set TRE66271. Have been discontinued by John Deere.

(20): 93mm – Use with R515365 and R515366 main bearing cap.

(21): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE544601 INTERIM TIER 4

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
Tier 4 Applications

Engine Data:
4 Valve per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in /(+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE544601

Please see page **484** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ109780

2) **Engine I/F Kit**
- TIK109780
- SPEC SHEET - 4045T-H

Piston-Liner Kit
- TDZ109764

Consists of:
- a) TRE544601
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

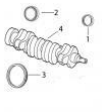
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 4



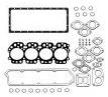
1) **Front Seal**
- TRE505515 [2]

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE506195 [3]

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ108462 [4]

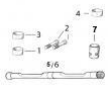
2) **Head Gasket Set**
- TDZ110017

3) **Head Gasket**
- TRE543672

4) **Oil Pan Gasket**
- TR521525 [5]
- TR521493 [5]
- TR97342 [5]

5) **Rocker Cov Gsk**
- TR532065
- TR524499

6) **Front Timing Gasket**
- TR545883
- TR545884



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

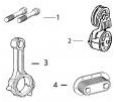
4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H



1) **Cyl Hd Cap Screw**
- TR526682 x18 [5]
- TR534287 x18 [5]

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE546918

2) **Water Pump Gsk**
- TR123417

3) **Pump, Oil**
- TRE504914 [5]
- TRE521756 [5]

4) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR527333 x8

Valve, Exhaust
- TR532049 x8

Insert, Valve Intake
- TRE518082 x8

Insert, Valve Exhaust
- TRE518083 x8

Seal, Valve Intake
- TRE536919 x8

Seal, Valve Exhaust
- TRE541360 x8

Lock, Valve
- TR534978 x32

Spring, Valve
- TR528300 x16 [6] [5]
- TR534236 x16 [7] [5]

Retainer, Spring
- TR502367 x16

Guide, Valve
- TR545673 x16

1) **Thermostat**
- TRE538289 [5]
- TRE554015 180° F [5]

2) **Oil Cooling Jet**
- TRE547214 x4

3) **Main Bearing Cap Bolt**
- TR528387 x10 [9]
- TR535005 x10 [10]

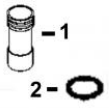
1) **Fuel Transfer Pump**
- TRE517230 [8]

2) **Injector**
- TRE571234 [5]
- TRE545562 [5]
- TRE557023 [5]

3) **Injection Pump Gear**
- TR502541 30T [5]

4) **Idler Gear, Lower**
- TRE56369 43T [5]

5) **Suction Control Valve**
- TDZ111140 [5]



1) **Injector Tube**
- TRE543935 x4

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(3): Taper Nose.

(4): O/H Gasket Set does include the Front and Rear Oil Seals.

(5): Check Application for proper usage

(6): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(7): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

(8): Line Connections are both threaded.

(9): 93mm – Use with R515365 and R515366 main bearing cap.

(10): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE544607 INTERIM TIER 4

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
Tier 4 Applications

Engine Data:
4 Valve per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in /(+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE544607

Please see page **485** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ109776

2) **Engine I/F Kit**
- TIK109776
- SPEC SHEET - 4045T-H

Piston-Liner Kit
- TDZ109765

Consists of:
- a) TRE544607
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

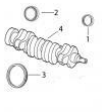
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 4



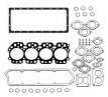
1) **Front Seal**
- TRE505515 [2]

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE506195 [3]

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ108462 [4]

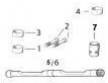
2) **Head Gasket Set**
- TDZ110017

3) **Head Gasket**
- TRE543672

4) **Oil Pan Gasket**
- TR521525 [5]
- TR521493 [5]
- TR97342 [5]

5) **Rocker Cov Gsk**
- TR532065
- TR524499

6) **Front Timing Gasket**
- TR545883
- TR545884



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

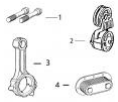
4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H



1) **Cyl Hd Cap Screw**
- TR526682 x18 [5]
- TR534287 x18 [5]

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE546918

2) **Water Pump Gsk**
- TR123417

3) **Pump, Oil**
- TRE504914 [5]
- TRE521756 [5]

4) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR527333 x8

Valve, Exhaust
- TR532049 x8

Insert, Valve Intake
- TRE518082 x8

Insert, Valve Exhaust
- TRE518083 x8

Seal, Valve Intake
- TRE536919 x8

Seal, Valve Exhaust
- TRE541360 x8

Lock, Valve
- TR534978 x32

Spring, Valve
- TR528300 x16 [6] [5]
- TR534236 x16 [7] [5]

Retainer, Spring
- TR502367 x16

Guide, Valve
- TR545673 x16

1) **Thermostat**
- TRE538289 [5]
- TRE554015 180° F [5]

2) **Main Bearing Cap Bolt**
- TR528387 x10 [9]
- TR535005 x10 [10]

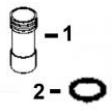
1) **Fuel Transfer Pump**
- TRE517230 [8]

2) **Injector**
- TRE571234 [5]
- TRE545562 [5]
- TRE557023 [5]

3) **Injection Pump Gear**
- TR502541 30T [5]

4) **Idler Gear, Lower**
- TRE56369 43T [5]

5) **Suction Control Valve**
- TDZ111140 [5]



1) **Injector Tube**
- TRE543935 x4

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(3): Taper Nose.

(4): O/H Gasket Set does include the Front and Rear Oil Seals.

(5): Check Application for proper usage

(6): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(7): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

(8): Line Connections are both threaded.

(9): 93mm – Use with R515365 and R515366 main bearing cap.

(10): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE551101 TIER 4 FINAL

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
Tier 4 Final applications

Engine Data:
4 Valve per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in /(+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE551101

Please see page **486** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ108463

2) **Engine I/F Kit**
- TIK108463
- SPEC SHEET - 4045T-H

Piston-Liner Kit
- TDZ109758

Consists of:
- a) TRE551101 9
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

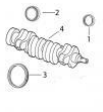
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 4



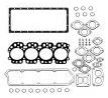
1) **Front Seal**
- TRE505515 2

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE506195 3

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ108462 4

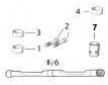
2) **Head Gasket Set**
- TDZ110017

3) **Head Gasket**
- TRE543672

4) **Oil Pan Gasket**
- TR521525 5
- TR521493 5
- TR97342 5

5) **Rocker Cov Gsk**
- TR532065
- TR524499

6) **Front Timing Gasket**
- TR545883
- TR545884



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

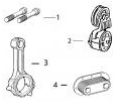
4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H



1) **Cyl Hd Cap Screw**
- TR526682 x18 5
- TR534287 x18 5

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE546918

2) **Water Pump Gsk**
- TR123417

3) **Pump, Oil**
- TRE504914 5
- TRE521756 5

4) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR527333 x8

Valve, Exhaust
- TR532049 x8

Insert, Valve Intake
- TRE518082 x8

Insert, Valve Exhaust
- TRE518083 x8

Seal, Valve Intake
- TRE536919 x8

Seal, Valve Exhaust
- TRE541360 x8

Lock, Valve
- TR534978 x32

Spring, Valve
- TR528300 x16 6 5
- TR534236 x16 7 5

Retainer, Spring
- TR502367 x16

Guide, Valve
- TR545673 x16

1) **Thermostat**
- TRE538289 5
- TRE554015 180° F 5

2) **Oil Cooling Jet**
- TRE547214 x4

3) **Main Bearing Cap Bolt**
- TR528387 x10 10
- TR535005 x10 11

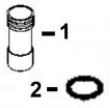
1) **Fuel Transfer Pump**
- TRE517230 8

2) **Injector**
- TRE571234 5
- TRE545562 5
- TRE557023 5

3) **Injection Pump Gear**
- TR502541 30T 5

4) **Idler Gear, Lower**
- TRE56369 43T 5

5) **Suction Control Valve**
- TDZ111140 5



1) **Injector Tube**
- TRE543935 x4

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(3): Taper Nose.

(4): O/H Gasket Set does include the Front and Rear Oil Seals.

(5): Check Application for proper usage

(6): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(7): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

(8): Line Connections are both threaded.

(9): Cooling Gallery Incorporated

(10): 93mm – Use with R515365 and R515366 main bearing cap.

(11): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 4045 4.5T/H PISTON (M) RE570485 TIER 4 FINAL

Engine Series:
PowerTech

Engine Model:
4045T/H

Engine Desc:
Tier 4 Final applications

Engine Data:
4 Valve per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in /(+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE570485

Please see page **487** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ109779

2) **Engine I/F Kit**
- TIK109779
- SPEC SHEET - 4045T-H

Piston-Liner Kit
- TDZ109760

Consists of:
- a) TRE570485
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

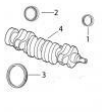
Use 4

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 4



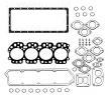
1) **Front Seal**
- TRE505515 [2]

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE506195 [3]

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ108462 [4]

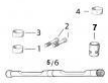
2) **Head Gasket Set**
- TDZ110017

3) **Head Gasket**
- TRE543672

4) **Oil Pan Gasket**
- TR521525 [5]
- TR521493 [5]
- TR97342 [5]

5) **Rocker Cov Gsk**
- TR532065
- TR524499

6) **Front Timing Gasket**
- TR545883
- TR545884



1) **Bush, Con Rod**
- TR114082 x4

2) **Bolt, Con Rod**
- TR501124 x8

3) **Bush, Bal. Shaft**
- TR115299 x6

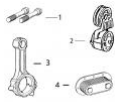
4) **Bush, Camshaft**
- TR119874 x1

5) **Bal. Shaft R/H**
- TRE500448

6) **Bal. Shaft L/H**
- TRE500449

7) **Cam Follower**
- TR123565 x8

8) **Balancer Shaft Gear**
- TR120637 R/H
- TR120639 L/H



1) **Cyl Hd Cap Screw**
- TR526682 x18 [5]
- TR534287 x18 [5]

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE546918

2) **Water Pump Gsk**
- TR123417

3) **Pump, Oil**
- TRE504914 [5]
- TRE521756 [5]

4) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR527333 x8

Valve, Exhaust
- TR532049 x8

Insert, Valve Intake
- TRE518082 x8

Insert, Valve Exhaust
- TRE518083 x8

Seal, Valve Intake
- TRE536919 x8

Seal, Valve Exhaust
- TRE541360 x8

Lock, Valve
- TR534978 x32

Spring, Valve
- TR528300 x16 [6] [5]
- TR534236 x16 [7] [5]

Retainer, Spring
- TR502367 x16

Guide, Valve
- TR545673 x16

1) **Thermostat**
- TRE538289 [5]
- TRE554015 180° F [5]

2) **Main Bearing Cap Bolts**
- TR528387 x10 [9]
- TR535005 x10 [10]

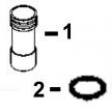
1) **Fuel Transfer Pump**
- TRE517230 [8]

2) **Injector**
- TRE571234 [5]
- TRE545562 [5]
- TRE557023 [5]

3) **Injection Pump Gear**
- TR502541 30T [5]

4) **Idler Gear, Lower**
- TRE56369 43T [5]

5) **Suction Control Valve**
- TDZ111140 [5]



1) **Injector Tube**
- TRE543935 x4

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(3): Taper Nose.

(4): O/H Gasket Set does include the Front and Rear Oil Seals.

(5): Check Application for proper usage

(6): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(7): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

(8): Line Connections are both threaded.

(9): 93mm – Use with R515365 and R515366 main bearing cap.

(10): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 5030TT LATE, TIER 2 & 3, PISTON (M) RE526785

Engine Series:
PowerTech

Engine Model:
5030TT

Engine Desc:
Tier 2 & 3

Engine Info:
5 Cyl

Engine Dimensions:
Bore: 3.39 in / 86 mm
Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

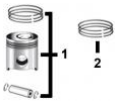
Piston (M):
RE526785

Loader
304J

Engine Model - Confirm Piston With Serial
5030TF270
5030TF271
5030TF272
5030TT003

1) **Engine O/H Kit**
- TOK5030TTL
- TOK5030TTLA
- TOK5030TTLB

2) **Engine I/F Kit**
- TIK5030TTL
- TIK5030TTLA
- TIK5030TTLB
- SPEC SHEET - 5030TL



1) **Piston & Ring Kit**
- TRE527574 Std
- TRE527574A 0.25 3
- TRE527574B 0.50 3

2) **Ring Set**
- TRE543439 Std
- TRE524567 0.25
- TRE524568 0.50

Use 5 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

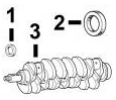
Use 6 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

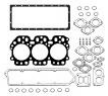
Use 5 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE536448

2) **Head Gasket**
- TRE528707 Std.
- TRE535450 O/S 2

3) **Oil Pan Gasket**
- TR528263

1) **Connecting Rod Bushing**
- TR502502 x5

2) **Connecting Rod**
- TRE544411 x5

3) **Bolt, Conn. Rod**
- TR502503 x10

4) **Cylinder Head Bolts**
- TR516692 x2
- T19M8986 x6
- TR516693 x10

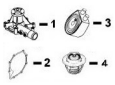
1) **Cam Bearing**
- TR504808 x5

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x10

4) **Push Rod**
- TRE517136 x10

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545573

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x5

Valve, Exhaust
- TR502455 x5

Insert, Valve In
- TR526671 x5

Insert, Valve Ex
- TR526672 x5

Seal, Valve
- TRE532712 x10

Lock, Valve
- TR502371 x20

Spring, Valve
- TR522728 x10

Rotator, Valve
- TR502367 x10

Fuel Transfer pump
- TRE532211 1
- TRE532210 Includes Primer 1

Balancer Shaft Bushing
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x5

1) **Glow plug**
- TRE505867 x5

2) **Nozzle Seal Kit**
- TRE521175 x5

(1): Check Application for proper usage
(2): Use for Oversize Piston Kits.
(3): Use Oversize Head Gasket.

JOHN DEERE 5030TT EARLY, TIER 2, PISTON (M) RE516347

Engine Series: PowerTech

Engine Model: 5030TT

Engine Desc: Tier 2

Engine Info: 5 Cyl

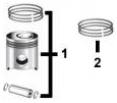
Engine Dimensions: Bore: 3.39 in / 86 mm Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M): RE516347

Wheel Loader	Skid Steer Loader		Engine Model		Engine Model - Confirm Piston With Serial	
304J	325	328	5030HF220	5030HT001	5030TF270	5030TF271
	332	CT332	5030TT001	5030TT002	5030TF272	5030TT003

1) **Engine O/H Kit**
- TOK5030TTE
- TOK5030TTEA
- TOK5030TTEB

2) **Engine I/F Kit**
- TIK5030TTE
- TIK5030TTEA
- TIK5030TTEB
- SPEC SHEET - 5030TL



1) **Piston & Ring Kit**
- TRE520936 Std
- TRE524563 0.25 3
- TRE524564 0.50 3

2) **Ring Set**
- TRE543439 Std
- TRE524567 0.25
- TRE524568 0.50

Use 5 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

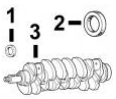
Use 6 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

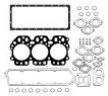
Use 5 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE536448

2) **Head Gasket**
- TRE528707 Std.
- TRE535450 O/S 2

3) **Oil Pan Gasket**
- TR528263

1) **Connecting Rod Bushing**
- TR502502 x5

2) **Connecting Rod**
- TRE544411 x5

3) **Bolt, Conn. Rod**
- TR502503 x10

4) **Cylinder Head bolt**
- TR516692 x2
- T19M8986 x6
- TR516693 x10

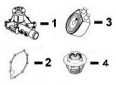
1) **Cam Bearing**
- TR504808 x5

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x10

4) **Push Rod**
- TRE517136 x10

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545573

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x5

Valve, Exhaust
- TR502455 x5

Insert, Valve In
- TR526671 x5

Insert, Valve Ex
- TR526672 x5

Seal, Valve
- TRE532712 x10

Lock, Valve
- TR502371 x20

Spring, Valve
- TR522728 x10

Rotator, Valve
- TR502367 x10

Fuel Transfer pump
- TRE532211 1
- TRE532210 Includes Primer 1

Balancer Shaft Bushing
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x5

Glow Plug
- TRE505867 x5

2) **Nozzle Seal Kit**
- TRE521175 x5

(1): Check Application for proper Usage

(2): Use for Oversize Piston Kits.

(3): Use Oversize Head Gasket.

Engine Series:
PowerTech

Engine Model:
5030TL

Engine Desc:
Tier 3

Engine Info:
5 Cyl

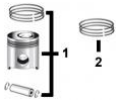
Engine Dimensions:
Bore: 3.39 in / 86 mm
Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M):
RE522094

Engine Model - Confirm Piston With Serial
5030TF270

1) **Engine O/H Kit**
- TOK5030TL
- TOK5030TLA
- TOK5030TLB

2) **Engine I/F Kit**
- TIK5030TL
- TIK5030TLA
- TIK5030TLB
- SPEC SHEET - 5030TL



1) **Piston & Ring Kit**
- TRE543435 Std
- TRE524565 0.25 3
- TRE524566 0.50 3

2) **Ring Set**
- TRE543439 Std
- TRE524567 0.25
- TRE524568 0.50

Use 5 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

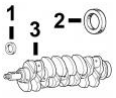
Use 6 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

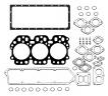
Use 5 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE536448

2) **Head Gasket**
- TRE528707 Std.
- TRE535450 O/S 2

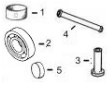
3) **Oil Pan Gasket**
- TR528263

1) **Connecting Rod Bushing**
- TR502502 x5

2) **Connecting Rod**
- TRE544411 x5

3) **Bolt, Conn. Rod**
- TR502503 x10

4) **Cylinder Head bolt**
- TR516692 x2
- T19M8986 x6
- TR516693 x10



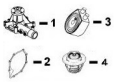
1) **Cam Bearing**
- TR504808 x5

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x10

4) **Push Rod**
- TRE517136 x10

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545573

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x5

Valve, Exhaust
- TR502455 x5

Insert, Valve In
- TR526671 x5

Insert, Valve Ex
- TR526672 x5

Seal, Valve
- TRE532712 x10

Lock, Valve
- TR502371 x20

Spring, Valve
- TR522728 x10

Rotator, Valve
- TR502367 x10

Fuel Transfer pump
- TRE532211 1
- TRE532210 Includes primer 1

Balancer Shaft Bushing
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x5

1) **Glow Plug**
- TRE505867 x5

2) **Nozzle Seal kit**
- TRE521175 x5

(1): Check Application for proper usage
(2): Use for Oversize Piston Kits.
(3): Use Oversize Head Gasket.

JOHN DEERE 5030HF, TIER 3, PISTON (M) RE527622

Engine Series:
PowerTech

Engine Model:
5030HF

Engine Desc:
Tier 3

Engine Info:
5 Cyl

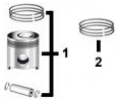
Engine Dimensions:
Bore: 3.39 in / 86 mm
Stroke : 4.13 in / 105 mm Pin Ø: 1.811 / 30mm

Piston (M):
RE527622

Loader		Skid Steer Loader		Compact Track Loader	Tractor		Engine Model
304J	324J	326D 332D	328D 333D	329D	5065M	5075M	5030HF285 5030HF285 5030HF286 5030HLV11 5030HT011 5030HT012 5030HT014

1) **Engine O/H Kit**
- TOK5030HF
- TOK5030HFA
- TOK5030HFB

2) **Engine I/F Kit**
- TIK5030HF
- TIK5030HFA
- TIK5030HFB
- SPEC SHEET - 5030TL



1) **Piston & Ring Kit**
- TRE536353 Std
- TRE536353A 0.25 3
- TRE536353B 0.50 3

2) **Ring Set**
- TRE533955 Std
- TRE533955A 0.25
- TRE533955B 0.50

Use 5 Kits

Main Bearing
- TRE520626 Std.
- TRE524569 0.25mm

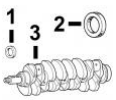
Use 6 sets

Thrust Washer
- TR502796 Std.

Use 1 set of 2

Con Rod Bearing
- TRE520937 Std.
- TRE524570 0.25 mm

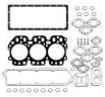
Use 5 sets



1) **Front Oil Seal**
- TAR67942

2) **Rear Oil Seal**
- TRE44574

3) **Crankshaft**



1) **O/H Gasket Set**
- TRE536448

2) **Head Gasket**
- TRE528707 Std.
- TRE535450 O/S 2

3) **Oil Pan Gasket**
- TR528263

1) **Connecting Rod Bushing**
- TR502502 x5

2) **Connecting Rod**
- TRE544411 x5

3) **Bolt, Conn. Rod**
- TR502503 x10

4) **Cylinder Head bolts**
- TR516692 x2
- T19M8986 x6
- TR516693 x10

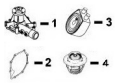
1) **Cam Bearing**
- TR504808 x5

2) **Cam Bearing Roller**
- TRE518215 x1

3) **Tappet**
- TDZ124185 x10

4) **Push Rod**
- TRE517136 x10

5) **Camshaft Plug**
- TR504965 x1



1) **Water Pump**
- TRE545573

2) **Gasket, Water Pump**
- TR533334

3) **Oil Cooler**
- TRE515469

4) **Thermostat**
- TRE526915

Valve, Intake
- TR502454 x5

Valve, Exhaust
- TR502455 x5

Insert, Valve In
- TR526671 x5

Insert, Valve Ex
- TR526672 x5

Seal, Valve
- TRE532712 x10

Lock, Valve
- TR502371 x20

Spring, Valve
- TR522728 x10

Rotator, Valve
- TR502367 x10

Fuel Transfer pump
- TRE532211 1
- TRE532210 Includes primer 1

1) **Balancer Shaft Bushing**
- TR503315 x4

Cylinder Repair Sleeve
- 86RS x5

1) **Injection Nozzle**
- TRE529390 x5

2) **Nozzle seal kit**
- TRE532825 x5

3) **Glow Plug**
- TRE505867 x5

(1): Check Application for Proper Usage
(2): Use for Oversize Piston Kits.
(3): Use Oversize Head Gasket.

JOHN DEERE 6068 6.8T/H PISTON (M) RE55512 / RE505102

Engine Series:
PowerTech

Engine Model:
6068T/H

Engine Desc:
6.8T/H

Engine Data:
4810, 4820, 4824

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R114081, R500335

Piston (M):
RE55512, RE505102

Please see page **488** for a complete list of equipment models.

Engine O/H Kit
- TRE66097
- TRE66097A 12

Engine I/F Kit
- TIK66097
- TIK66097A 12
- Spec Sheet - TRE66097

Piston-Liner Kit
- TRE507850 (RE505112)

Consists of:
- a) TRE55512
- b) TRE66820 14
- c) TR123177
- d) TR116383
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 8

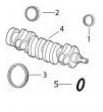
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 8

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 8

Use 6



1) **Front Seal**
- TRE505515 5

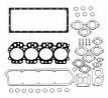
2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE515785 3
- TRE505921 4

5) **Seal**
- TH35244

6) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE501456 15

2) **Head Gasket Set**
- TRE66085

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR123354

5) **Rocker Cover Gsk**
- TR123543

6) **Timing Cover Gsk**
- TR123421
- TR123425

1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR114083 x12 1
- TR501124 x12 1

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

Camshaft
- TRE56578 x1 - Includes Gear

1) **Cyl Hd Cap Screw**
- TR85363 x26 2

2) **Tensioner, Belt**
- TRE518097 7
- TRE68715 7

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE504911 7

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

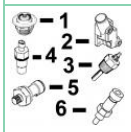
2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005



1) **Thermostat**
- TRE522076 180° F 7
- TRE528652 180° F 7
- TDZ100553 180° F 7
- TRE64354 180° F 7

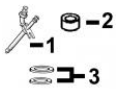
2) **Thermostat Cover**
- TR501130 7

3) **Water Temp Sensor**
- TRE51774 7

4) **Water Temp Sensor**
- TRE52722 7

5) **Oil Pressure Sensor**
- TRE167207 7

6) **Crankshaft Sensor**
- TRE519144 7



1) **Injector, Pencil**
- TRE60062 (Non Turbo)
- TRE48786 (Turbo)
- TRE531436 6

2) **Inj Grommet Kit**
- TMX506

3) **Seal**
- TR92352
- TR48000

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 18
- TR535005 x14 19

1) **Fuel Transfer Pump**
- TRE66153 9
- TRE68345 10
- TRE502513 11
- TRE55390

2) **Fuel Pump Electric**
- TAL155607 7

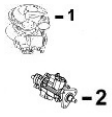
3) **Fuel Pump Electric**
- TRE509530 7

4) **Fuel Pump Kit**
- TRE505825 7

5) **Injection Pump Gear**
- TR132267 60T 7

6) **Idler Gear, Lower**
- TRE56369 43T 7

7) **Idler Gear, Upper**
- TRE508932 49T 7



Turbocharger
- TRE508657 7
- TRE509436 7
- TRE515501 7
- TRE509807 7

2) **Fuel Injection Pump**
- TRE518164 17 7
- TRE557897 17 7

(1): Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Tapered Nose.

(5): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(6): Use with Stanadyne DE10 Injection Pump.

(7): Check application for proper usage.

(8): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(9): Line Connections are both threaded.

(10): Line Connections are one hose barb & one threaded.

(11): Line Connections are two hose barbs.

(12): With Con Rod R500335.

(13): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(14): Not to be used with pistons marked RE509540.

(15): Our gasket sets do not include the front and rear crankshaft seals

(17): This part is non-returnable.

(18): 93mm – Use with R515365 and R515366 main bearing cap.

(19): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 6068 6.8T/H PISTON (M) RE521616 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
6068T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder
CODE 4834

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured) (9)

Piston (M):
RE521616

Please see page **489** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE527834

2) **Engine I/F Kit**
- TIK527834
- Spec Sheet - 6068T 24 Valve

Piston-Liner Kit
- TRE524450

Consists of:
- a) TRE521616
- b) TRE524453
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 2

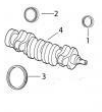
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 2

Use 6



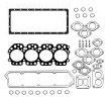
1) **Front Seal**
- TRE505515 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 5
- TR28811 5

4) **Crankshaft**
- TRE515785 3
- TRE505921 4

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE527833 10

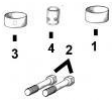
2) **Head Gasket Set**
- TRE527832

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR521498 5
- TR123354 5

5) **Rocker Cover Gsk**
- TR524496
- TR524497

6) **Timing Cover Gsk**
- TR526944 5
- TR526945 5



1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

1) **Cyl Hd Cap Screw**
- TR502511 x26

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417 5

4) **Pump, Oil**
- TRE504914 5
- TRE521756 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std. 5
- TRE518080 Std. 5

Valve, Exhaust
- TRE518081 Std.

1) **Insert, Valve In**
- TRE518082 Std.

2) **Insert, Valve Ex**
- TRE518083 Std.

1) **Seal, Valve**
- TRE526519 x24 5
- TRE519115 x24 5

2) **Lock, Valve**
- TR502371 x48 5

1) **Spring, Valve**
- TR518872 x24 5
- TRE516486 x24 5

1) **Thermostat**
- TRE522076 180° F 5
- TRE538289 180° F 5
- TRE64354 180° F 5

2) **Thermostat Cover**
- TR501130

3) **Water Temp Sensor**
- TRE51774 5

4) **Water Temp Sensor**
- TRE52722 5

5) **Oil Pressure Sensor**
- TRE167207 5

6) **Crankshaft Sensor**
- TRE519144 5

7) **Fuel Pressure Sensor**
- TRE522794 5
- TRE520930 5

8) **Temperature Sensor**
- TRE522823 5

1) **Fuel Transfer Pump**
- TRE66153 6
- TRE68345 7
- TRE502513 8
- TRE517230 5

2) **Injector**
- TDZ100211 5
- TDZ100212 5
- TDZ100216 5
- TDZ100217 5
- TDZ100218 5
- TRE516540 5

3) **Injection Pump Gear**
- TR502541 30T 5

4) **Idler Gear, Lower**
- TRE56369 43T 5

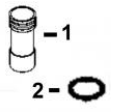
5) **Pressure Relief Valve**
- TRE516335 5

6) **Suction Control Valve**
- TDZ111135 5
- TDZ111136 5
- TDZ111137 5
- TDZ111141 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 12
- TR535005 x14 13



1) **Injector Tube**
- TRE543935 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609

1) **Turbocharger**
- TRE508657 5
- TRE519833 5

2) **Cylinder Head**
- TR519581UF 14

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Taper Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

(14): Bare & unfinished. Head Includes injector sleeves, valve seats and guides.

JOHN DEERE 6068 6.8T/H PISTON (M) RE515037 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
6068T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder
CODE 4836

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335

Piston (M):
RE515037

Please see page **490** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE546990

2) **Engine I/F Kit**
- TIK546990
- Spec Sheet - 6068T 24 Valve

Piston-Liner Kit
- TRE530616

Consists of:
- a) TRE515037
- b) TRE530613
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 2

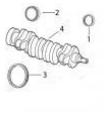
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 2

Use 6



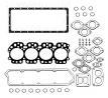
1) **Front Seal**
- TRE505515 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 5
- TR28811 5

4) **Crankshaft**
- TRE515785 3
- TRE505921 4

5) **Crankshaft Gear**
- TR120631 30T



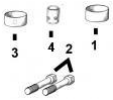
1) **O/H Gasket Set**
- TRE527833 10

2) **Head Gasket Set**
- TRE527832

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR521498 5
- TR123354 5

5) **Rocker Cover Gsk**
- TR524496
- TR524497

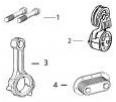


1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12



1) **Cyl Hd Cap Screw**
- TR502511 x26

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417 5

4) **Pump, Oil**
- TRE504914 5
- TRE521756 6

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std. 5
- TRE518080 Std. 5

Valve, Exhaust
- TRE518081 Std.

1) Insert, Valve In
- TRE518082 Std.

2) Insert, Valve Ex
- TRE518083 Std.

1) Seal, Valve
- TRE526519 x24 5
- TRE519115 x24 5

2) Lock, Valve
- TR502371 x48 5

1) Spring, Valve
- TR518872 x24 5
- TRE516486 x24 5

1) **Thermostat**
- TRE522076 180° F 5
- TRE538289 180° F 5
- TRE64354 180° F 5

2) **Thermostat Cover**
- TR501130 5

3) **Water Temp Sensor**
- TRE51774 5

4) **Water Temp Sensor**
- TRE52722 5

5) **Oil Pressure Sensor**
- TRE167207 5

6) **Crankshaft Sensor**
- TRE519144 5

7) **Fuel Pressure Sensor**
- TRE522794 5
- TRE520930 5

8) **Temperature Sensor**
- TRE522823 5

1) **Fuel Transfer Pump**
- TRE66153 6
- TRE68345 7
- TRE502513 8
- TRE517230 5

2) **Injector**
- TDZ100211 5
- TDZ100212 5
- TDZ100216 5
- TDZ100217 5
- TRE516540 5

3) **Injection Pump Gear**
- TR502541 30T 5

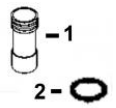
4) **Idler Gear, Lower**
- TRE56369 43T 5

Pressure Relief Valve
- TRE516335 5

Suction Control Valve
- TDZ111135 5
- TDZ111136 5
- TDZ111137 5
- TDZ111141 5

Glow Plug
- 1) TRE502079 (11 V)
- 2) TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)



1) **Injector Tube**
- TRE543935 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609

1) **Turbocharger**
- TRE508657 5

2) **Cylinder Head**
- TR519581UF 12

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft toensure proper operation.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Taper Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(9): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(10): Our gasket sets do not include the front and rear crankshaft seals

(11): TRE500734 supplied with a cast iron impeller; TRE500734P supplied with a resin impeller.

(12): Bare & unfinished. Head Includes injector sleeves, valve seats and guides.

JOHN DEERE 6068 6.8T/H PISTON (M) RE507758 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
6068T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
4 Valve per Cylinder
CODE 4817

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE507758

Please see page **491** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE526975

2) **Engine I/F Kit**
- TIK526975
- Spec Sheet - 6068T 24 Valve

Piston-Liner Kit
- TRE516228

Consists of:
- a) TRE507758
- b) TRE516268
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

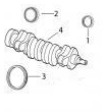
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 6



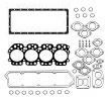
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 — 5
- TR28811 — 5

4) **Crankshaft**
- TRE515785 — 3
- TRE505921 — 4

5) **Crankshaft Gear**
- TR120631 30T



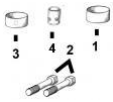
1) **O/H Gasket Set**
- TRE527833 — 10

2) **Head Gasket Set**
- TRE527832

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR521498 — 5
- TR123354 — 5

5) **Rocker Cover Gsk**
- TR524496
- TR524497



1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

1) **Cyl Hd Cap Screw**
- TR502511 x26

2) **Tensioner, Belt**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417 — 5

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TRE531221 Std. — 5
- TRE518080 Std. — 5

Valve, Exhaust
- TRE518081 Std.

1) **Insert, Valve In**
- TRE518082 Std.

2) **Insert, Valve Ex**
- TRE518083 Std.

1) **Seal, Valve**
- TRE526519 x24 — 5
- TRE519115 x24 — 5

2) **Lock, Valve**
- TR502371 x48 — 5

1) **Spring, Valve**
- TR518872 x24 — 5
- TRE516486 x24 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180º F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8 — 5
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

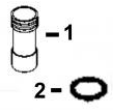
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111136 — 5
- TDZ111137 — 5
- TDZ111141 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 — 12
- TR535005 x14 — 13



1) **Injector Tube**
- TRE543935 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609

Turbocharger
- TRE508657 — 5

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Taper Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(10): Our gasket sets do not include the front and rear crankshaft seals

(11): TRE500734 supplied with a cast iron impeller; TRE500734P supplied with a resin impeller.

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 6068 6.8T/H PISTON (M) RE527039 TIER 2 & TIER 3 (2)

Engine Series:
PowerTech

Engine Model:
6068T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
2 Valve per Cylinder
CODE 4839

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE527039

Please see page **492** for a complete list of equipment models.

1) **Engine O/H Kit**
- TRE540226

2) **Engine I/F Kit**
- TIK540226
- Spec Sheet - 6068T 24 Valve

Piston-Liner Kit
- TRE536083

Consists of:
- a) TRE527039
- b) TRE527844
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

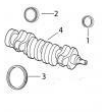
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 6



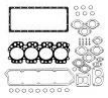
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 — 5
- TR28811 — 5

4) **Crankshaft**
- TRE515785 — 3
- TRE505921 — 4

5) **Crankshaft Gear**
- TR120631 30T



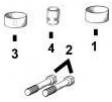
1) **O/H Gasket Set**
- TRE532631 — 10

2) **Head Gasket Set**
- TRE532841

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR521498 — 5
- TR123354 — 5

5) **Rocker Cover Gsk**
- TR524496
- TR524497



1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

1) **Cyl Hd Cap Screw**
- TR85363 — 5
- TR502511 — 5

2) **Belt Tensioner**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417 — 5

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std. — 5

Valve, Exhaust
- TR90692 Std.

1) **Insert, Valve In**
- TR98063 Std.

2) **Insert, Valve Ex**
- TR85687 Std.

1) **Seal, Valve**
- TRE31617 x12 — 5

2) **Lock, Valve**
- TR91889 x24 — 5

1) **Spring, Valve**
- TR26125 x12 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180º F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100216 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

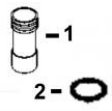
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111136 — 5
- TDZ111137 — 5
- TDZ111141 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 — 12
- TR535005 x14 — 13



1) **Injector Tube**
- TRE543935 x6
- TRE527456 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609 — 5

Turbocharger
- TRE508657 — 5
- TRE550932 — 5

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Taper Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(10): Our gasket sets do not include the front and rear crankshaft seals

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 6068 6.8T/H PISTON (M) RE545770 TIER 2 & TIER 3

Engine Series:
PowerTech

Engine Model:
6068T/H

Engine Desc:
For Tier 2 & Tier 3 Applications

Engine Data:
2 Valves per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE545770

Please see page **493** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ109181

2) **Engine I/F Kit**
- TIK109181

Piston-Liner Kit
- TDZ109364

Consists of:
- a) TRE545770
- b) TRE507852
- c) TR502755
- d) TR116397
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 — 2

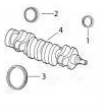
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 — 2

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 — 2

Use 6



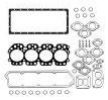
1) **Front Seal**
- TRE505515 — 1

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 — 5
- TR28811 — 5

4) **Crankshaft**
- TRE515785 — 3
- TRE505921 — 4

5) **Crankshaft Gear**
- TR120631 30T



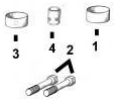
1) **O/H Gasket Set**
- TRE532631 — 10

2) **Head Gasket Set**
- TRE532841

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR521498 — 5
- TR123354 — 5

5) **Rocker Cover Gsk**
- TR524469 — 5



1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

1) **Cyl Hd Cap Screw**
- TR85363 — 5
- TR502511 — 5

2) **Belt Tensioner**
- TRE518097

3) **Con Rod**
- TRE500608

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE546918 — 5

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417 — 5

4) **Pump, Oil**
- TRE504914 — 5
- TRE521756 — 5

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.

2) **Insert, Valve Ex**
- TR85687 Std.

1) **Seal, Valve**
- TRE31617 x12

2) **Lock, Valve**
- TR91889 x24

1) **Spring, Valve**
- TR26125 x12

2) **Rotator, Valve**
- TRE60005 x12 — 5

1) **Thermostat**
- TRE522076 180° F — 5
- TRE538289 180º F — 5
- TRE64354 180° F — 5

2) **Thermostat Cover**
- TR501130 — 5

3) **Water Temp Sensor**
- TRE51774 — 5

4) **Water Temp Sensor**
- TRE52722 — 5

5) **Oil Pressure Sensor**
- TRE167207 — 5

6) **Crankshaft Sensor**
- TRE519144 — 5

7) **Fuel Pressure Sensor**
- TRE522794 — 5
- TRE520930 — 5

8) **Temperature Sensor**
- TRE522823 — 5

1) **Fuel Transfer Pump**
- TRE66153 — 6
- TRE68345 — 7
- TRE502513 — 8
- TRE517230 — 5

2) **Injector**
- TDZ100211 — 5
- TDZ100212 — 5
- TDZ100214 — 5
- TDZ100217 — 5
- TRE516540 — 5

3) **Injection Pump Gear**
- TR502541 30T — 5

4) **Idler Gear, Lower**
- TRE56369 43T — 5

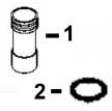
5) **Pressure Relief Valve**
- TRE516335 — 5

6) **Suction Control Valve**
- TDZ111135 — 5
- TDZ111136 — 5
- TDZ111137 — 5
- TDZ111141 — 5

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 — 12
- TR535005 x14 — 13



1) **Injector Tube**
- TRE527456K x6

2) **Injector O-Ring**
- TRE530609

Turbocharger
- TRE543657 — 5
- TRE550932 — 5

(1): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Taper Nose.

(5): Check application for proper usage.

(6): Line Connections are both threaded.

(7): Line Connections are one hose barb & one threaded.

(8): Line Connections are two hose barbs.

(10): Our gasket sets do not include the front and rear crankshaft seals

(12): 93mm – Use with R515365 and R515366 main bearing cap.

(13): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 6068 6.8L PISTON (M) RE544601 INTERIM TIER 4

Engine Series:
PowerTech

Engine Model:
6068

Engine Desc:
Tier 4 Applications

Engine Data:
4 Valve per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE544601

Please see page **494** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ109998

2) **Engine I/F Kit**
- TIK109998

Piston-Liner Kit
- TDZ109764

Consists of:
- a) TRE544601 12
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

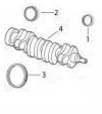
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 6



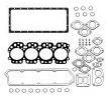
1) **Front Seal**
- TRE505515 2

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 5
- TR28811 5

4) **Crankshaft**
- TRE505921 4

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ109995 4

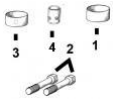
2) **Head Gasket Set**
- TDZ110132

3) **Head Gasket**
- TRE543671

4) **Oil Pan Gasket**
- TR521498 5
- TR123354 5
- TR528207 5

5) **Rocker Cover Gasket**
- TR528743
- TR532242

6) **Front Timing Cover Gasket**
- TR545885 5
- TR545886 5

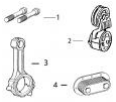


1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

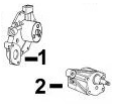


1) **Cyl Hd Cap Screw**
- TR526682 x26 5
- TR534287 x26 5

2) **Tensioner, Belt**
- TRE518097

3) **Conn. Rod**
- TRE500608

4) **Oil Cooler**
- TR528440



1) **Water Pump**
- TRE557899

2) **Pump, Oil**
- TRE538993 5
- TRE564406 5

Valve, Intake
- TR527333 x12 6 5
- TR534238 x12 7 5

Valve, Exhaust
- TR532049 x12 8 5
- TR534237 x12 9 5

Insert, Valve Intake
- TRE518082 x12

Insert, Valve Exhaust
- TRE518083 x12

Seal, Valve intake
- TRE536919 x12

Seal, Valve Exhaust
- TRE541360 x12

Spring, Valve
- TR528300 x24 10 5
- TR534236 x24 11 5

Lock, Valve
- TR534978 x48

Retainer, Valve Spring
- TR502367 x24

Guides, Valve
- TR545673 x24

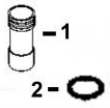
1) **Thermostat**
- TRE554015 180° F 5

1) **Injector**
- TRE557023 5
- TRE545562 5
- TRE548863 5
- TDZ100217 5

2) **Idler Gear, Lower**
- TRE56369 43T 5

3) **Suction Control Valve**
- TDZ111135 5
- TDZ111136 5
- TDZ111137 5

1) **Glow Plug**
- TRE537099



1) **Injector Tube**
- TRE543935 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097

(3): Crankshaft (m) R503470, Taper Nose

(4): O/H Gasket Set does include the Front and Rear Oil Seals

(5): Check application for proper usage

(6): Total Length 5.337"

(7): Total Length 5.555"

(8): Total Length 5.337"

(9): Total Length 5.555"

(10): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(11): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

(12): Cooling Gallery Incorporated

JOHN DEERE 6068 6.8L PISTON (M) RE553821 TIER 4 FINAL

Engine Series:
PowerTech

Engine Model:
6068

Engine Desc:
Tier 4 Applications

Engine Data:
4 Valve per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE553821

Please see page **495** for a complete list of equipment models.

1) **Engine O/H Kit**
- TDZ110005

2) **Engine I/F Kit**
- TIK110005

Piston-Liner Kit
- TDZ109761

Consists of:
- a) TRE553821 12
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

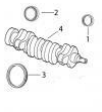
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 6



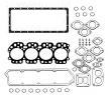
1) **Front Seal**
- TRE505515 2

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 5
- TR28811 5

4) **Crankshaft**
- TRE505921 4

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ109995 4

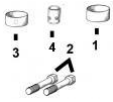
2) **Head Gasket Set**
- TDZ110132

3) **Head Gasket**
- TRE543671

4) **Oil Pan Gasket**
- TR521498 5
- TR123354 5
- TR528207 5

5) **Rocker Cover Gasket**
- TR528743
- TR532242

6) **Front Timing Cover Gasket**
- TR545885 5
- TR545886 5

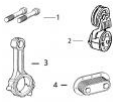


1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

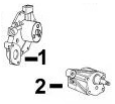


1) **Cyl Hd Cap Screw**
- TR526682 x26 5
- TR534287 x26 5

2) **Tensioner, Belt**
- TRE518097

3) **Conn. Rod**
- TRE500608

4) **Oil Cooler**
- TR528440



1) **Water Pump**
- TRE557899

2) **Pump, Oil**
- TRE538993 5
- TRE564406 5

Valve, Intake
- TR527333 x12 6 5
- TR534238 x12 7 5

Valve, Exhaust
- TR532049 x12 8 5
- TR534237 x12 9 5

Insert, Valve Intake
- TRE518082 x12

Insert, Valve Exhaust
- TRE518083 x12

Seal, Valve intake
- TRE536919 x12

Seal, Valve Exhaust
- TRE541360 x12

Spring, Valve
- TR528300 x24 10 5
- TR534236 x24 11 5

Lock, Valve
- TR534978 x48

Retainer, Valve Spring
- TR502367 x24

Guides, Valve
- TR545673 x24

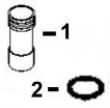
1) **Thermostat**
- TRE554015 180° F 5

1) **Injector**
- TRE557023 5
- TRE545562 5
- TRE548863 5
- TDZ100217 5

2) **Idler Gear, Lower**
- TRE56369 43T 5

3) **Suction Control Valve**
- TDZ111135 5
- TDZ111136 5
- TDZ111137 5

1) **Glow Plug**
- TRE537099



1) **Injector Tube**
- TRE543935 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097

(3): Crankshaft (m) R503470, Taper Nose

(4): O/H Gasket Set does include the Front and Rear Oil Seals

(5): Check application for proper usage

(6): Total Length 5.337"

(7): Total Length 5.555"

(8): Total Length 5.337"

(9): Total Length 5.555"

(10): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(11): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

(12): Cooling Gallery Incorporated

JOHN DEERE 6068 6.8L PISTON (M) RE544607 INTERIM TIER 4

Engine Series:
PowerTech

Engine Model:
6068

Engine Desc:
Tier 4 Applications

Engine Data:
4 Valve per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.6250 in / (+/- .0002) = 41mm

Con Rod (M):
R500335 (Fractured)

Piston (M):
RE544607

Farm Tractor
6140R
6150M
6150R
6150RH
6170M

Loader
524K
544K

Excavator
210GLC

Backhoe Loader
710K

Crawler Loader
655K
700K

Engine Model
6068HDW84
6068HFC93
6068HL490
6068HT079
6068HT086
6068HT089
6068HT092
6068RW405

1) **Engine O/H Kit**
- TDZ110000

2) **Engine I/F Kit**
- TIK110000

Piston-Liner Kit
- TDZ109765

Consists of:
- a) TRE544607
- b) TDZ104221
- c) TR502755
- d) TR542777
- e) TAR65507
- f) TR54114

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020

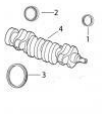
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020

Use 6



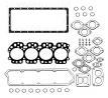
1) **Front Seal**
- TRE505515 2

2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 5
- TR28811 5

4) **Crankshaft**
- TRE505921 4

5) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TDZ109995 4

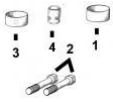
2) **Head Gasket Set**
- TDZ110132

3) **Head Gasket**
- TRE543671

4) **Oil Pan Gasket**
- TR521498 5
- TR123354 5
- TR528207 5

5) **Rocker Cover Gasket**
- TR528743
- TR532242

6) **Front Timing Cover Gasket**
- TR545885 5
- TR545886 5

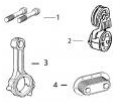


1) **Bush, Con Rod**
- TR114082 x6

2) **Bolt, Con Rod**
- TR501124 x12

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

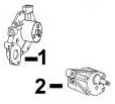


1) **Cyl Hd Cap Screw**
- TR526682 x26 5
- TR534287 x26 5

2) **Tensioner, Belt**
- TRE518097

3) **Conn. Rod**
- TRE500608

4) **Oil Cooler**
- TR528440



1) **Water Pump**
- TRE557899

2) **Pump, Oil**
- TRE538993 5
- TRE564406 5

Valve, Intake
- TR527333 x12 6 5
- TR534238 x12 7 5

Valve, Exhaust
- TR532049 x12 8 5
- TR534237 x12 9 5

Insert, Valve Intake
- TRE518082 x12

Insert, Valve Exhaust
- TRE518083 x12

Seal, Valve intake
- TRE536919 x12

Seal, Valve Exhaust
- TRE541360 x12

Spring, Valve
- TR528300 x24 10 5
- TR534236 x24 11 5

Lock, Valve
- TR534978 x48

Retainer, Valve Spring
- TR502367 x24

Guides, Valve
- TR545673 x24

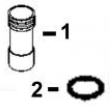
1) **Thermostat**
- TRE554015 180° F 5

1) **Injector**
- TRE557023 5
- TRE545562 5
- TRE548863 5
- TDZ100217 5

2) **Idler Gear, Lower**
- TRE56369 43T 5

3) **Suction Control Valve**
- TDZ111135 5
- TDZ111136 5
- TDZ111137 5

1) **Glow Plug**
- TRE537099



1) **Injector Tube**
- TRE543935 x6

2) **Injector O-Ring**
- TRE528349
- TRE530609

(1): Oil Pan Gasket is not included

(2): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097

(3): Crankshaft (m) R503470, Taper Nose

(4): O/H Gasket Set does include the Front and Rear Oil Seals

(5): Check application for proper usage

(6): Total Length 5.337"

(7): Total Length 5.555"

(8): Total Length 5.337"

(9): Total Length 5.555"

(10): Wire Diameter 0.135" – Closed Pressure 48lb-force@1.600"

(11): Wire Diameter 0.142" – Closed Pressure 56.5lb-force@1.600"

JOHN DEERE 6068D 6.8D PISTON (M) RE59279/RE505101

Engine Series:
PowerTech

Engine Model:
6068D

Engine Desc:
6.8D

Engine Data:
CODE 4805

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R123959 (Machined) (13), R500000 (Fractured) (13)

Piston (M):
RE59279, RE505101

Farm Tractors
6205
6505
6510
SE6510
6515
6520
SE6520

Engine Model
6.8L
6068TF150
6068DF150

Genmac
GAMMA G125JO
GAMMA G150JO
STAR G180JO
QUEEN G125JS*
QUEEN G150JS*
ROYAL G180JS

Engine O/H Kit
- TRE66095
- TRE66095A 12

Engine I/F Kit
- TIK66095
- TIK66095A 12
- Spec Sheet - TRE66095

Piston-Liner Kit
- TRE65966 (RE505110)

Consists of:
- a) TRE59279
- b) TRE66271
- c) TR123178
- d) TR116383
- e) TAR65507
- f) TM41029

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 8

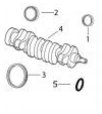
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 8

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 8
- TAR97655

Use 6



1) **Front Seal**
- TRE505515 5

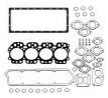
2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE515785 3
- TRE505921 4

5) **Seal**
- TH35244

6) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE501456 14

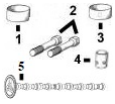
2) **Head Gasket Set**
- TRE66085

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR123354

5) **Rocker Cov Gsk**
- TR123543

6) **Timing Cover Gsk**
- TR123421
- TR123425



1) **Bush, Con Rod**
- TR123960 x6

2) **Bolt, Con Rod**
- TR114083 x12 1
- TR501124 x12 1

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

Camshaft
- TRE56578 x1 - Includes Gear

1) **Cyl Hd Cap Screw**
- TR85363 x26 2

2) **Tensioner, Belt**
- TRE518097 7
- TRE68715 7

3) **Con Rod**
- TRE500002

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE504911 7

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914 7

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

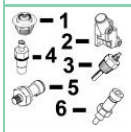
2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005



1) **Thermostat**
- TRE522076 180° F 7
- TRE528652 180° F 7
- TDZ100553 180° F 7
- TRE64354 180° F 7

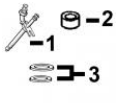
2) **Thermostat Cover**
- TR501130 7

3) **Water Temp Sensor**
- TRE51774 7

4) **Water Temp Sensor**
- TRE52722 7

5) **Oil Pressure Sensor**
- TRE167207 7

6) **Crankshaft Sensor**
- TRE519144 7



1) **Injector, Pencil**
- TRE60062 (Non Turbo)
- TRE48786 (Turbo)
- TRE531436 6

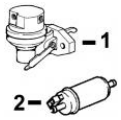
2) **Inj Grommet Kit**
- TMX506

3) **Seal**
- TR92352
- TR48000

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 16
- TR535005 x14 17



1) **Fuel Transfer Pump**
- TRE66153 9
- TRE68345 10
- TRE502513 11

2) **Fuel Pump Electric**
- TAL155607 7

3) **Injection Pump Gear**
- TR132267 60T 7

4) **Idler Gear, Lower**
- TRE56369 43T 7

5) **Idler Gear, Upper**
- TRE508932 49T 7

Turbocharger
- TRE509435 7

(1): Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Tapered Nose.

(5): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(6): Use with Stanadyne DE10 Injection Pump.

(7): Check application for proper usage.

(8): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(9): Line Connections are both threaded.

(10): Line Connections are one hose barb & one threaded.

(11): Line Connections are two hose barbs.

(12): with Connecting Rod R500000.

(13): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(14): Our gasket sets do not include the front and rear crankshaft seals

(16): 93mm – Use with R515365 and R515366 main bearing cap.

(17): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 6068T 6.8T PISTON (M) RE59277 / RE505100

Engine Series:
PowerTech

Engine Model:
6068T

Engine Desc:
6.8T

Engine Data:
CODE 4807, 4828

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.19 in / 106.5 mm Pin Ø: 1.3750 in / (+/- .0002) = 35mm

Con Rod (M):
R123959 (Machined) (14), R500000 (Fractured) (14)

Piston (M):
RE59277, RE505100 (9)

Farm Tractors
6603

Cotton Pickers
7455
7460

Motor Graders
670C
670CH
672CH

Crawler Dozers
700H
700J

Engine Model
6068TF150
6068TP053
6068TF151
6068TP053
6068TF158
6068TP054
6068TF275
6068TT056
6068TN051
6068TT060
6068TN054

Engine O/H Kit
- TRE66096
- TRE66096A 13

Engine I/F Kit
- TIK66096
- TIK66096A 13
- Spec Sheet - TRE66096

Piston-Liner Kit
- TRE507920 (RE515372)

Consists of:
- a) TRE515372
- b) TRE66820
- c) TR123178
- d) TR116383
- e) TAR65507
- f) TM41029

Main Bearing
- TRE65165 Std.
- TRE65911 0.010
- TRE65165B 0.020 8

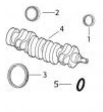
Use 6

Thrust Bearing
- TRE65168 Std.
- TRE65912 0.010
- TRE65168B 0.020 8

Use 1

Con Rod Bearing
- TRE65908 Std.
- TRE65909 0.010
- TRE65908B 0.020 8

Use 6



1) **Front Seal**
- TRE505515 5

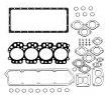
2) **Rear Seal**
- TRE44574

3) **Ring Gear**
- TR114282 (142T)
- TR28811 (129T)

4) **Crankshaft**
- TRE515785 3
- TRE505921 4

5) **Seal**
- TH35244

6) **Crankshaft Gear**
- TR120631 30T



1) **O/H Gasket Set**
- TRE501456 15

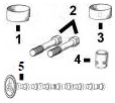
2) **Head Gasket Set**
- TRE66085

3) **Head Gasket**
- TR116516

4) **Oil Pan Gasket**
- TR123354

5) **Rocker Cover Gsk**
- TR123543

6) **Timing Cover Gsk**
- TR123421
- TR123425



1) **Bush, Con Rod**
- TR123960 x6

2) **Bolt, Con Rod**
- TR114083 x12 1
- TR501124 x12 1

3) **Bush, Camshaft**
- TR119874 x1

4) **Cam Follower**
- TR123565 x12

Camshaft
- TRE56578 x1 - Includes Gear

1) **Cyl Hd Cap Screw**
- TR85363 x26 2

2) **Tensioner, Belt**
- TRE518097 7
- TRE68715 7

3) **Con Rod**
- TRE500002

4) **Oil Cooler**
- TRE59296 (5 Plates)
- TRE56690 (7 Plates)
- TRE59298 (9 Plates)

1) **Water Pump**
- TRE500734
- TRE504911 7

2) **Water Pump Cov**
- TRE508566

3) **Water Pump Gsk**
- TR123417

4) **Pump, Oil**
- TRE504914

5) **Water Pump Housing**
- TR121634

6) **Oil Pump Gear**
- TR120638 30T

Valve, Intake
- TR98062 Std.
- TR97490 0.015

Valve, Exhaust
- TR90692 Std.
- TR97492 0.015

1) **Insert, Valve In**
- TR98063 Std.
- TR98335 O/S

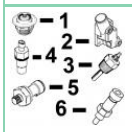
2) **Insert, Valve Ex**
- TR85687 Std.
- TR93910 O/S

1) **Seal, Valve**
- TRE31617

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR26125

2) **Rotator, Valve**
- TRE60005



1) **Thermostat**
- TRE522076 180° F 7
- TRE528652 180° F 7
- TDZ100553 180° F 7
- TRE64354 180° F 7

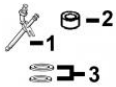
2) **Thermostat Cover**
- TR501130 7

3) **Water Temp Sensor**
- TRE51774 7

4) **Water Temp Sensor**
- TRE52722 7

5) **Oil Pressure Sensor**
- TRE167207 7

6) **Crankshaft Sensor**
- TRE519144 7



1) **Injector, Pencil**
- TRE60062 (Non Turbo)
- TRE48786 (Turbo)
- TRE531436 6

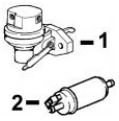
2) **Inj Grommet Kit**
- TMX506

3) **Seal**
- TR92352
- TR48000

1/2) **Glow Plug**
- TRE502079 (11 V)
- TRE504580 x6 (10 V)

3) **Air Heater**
- TRE502668 (12 V)

4) **Main Bearing Cap Bolt**
- TR528387 x14 16
- TR535005 x14 17



1) **Fuel Transfer Pump**
- TRE66153 10
- TRE68345 11
- TRE502513 12

2) **Fuel Pump Electric**
- TAL155607 7

3) **Injection Pump Gear**
- TR132267 60T 7

4) **Idler Gear, Lower**
- TRE56369 43T 7

5) **Idler Gear, Upper**
- TRE508932 49T 7

Turbocharger
- TRE508657 7
- TRE509807 7

(1): Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.

(2): Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3): Crankshaft (m) R116076, Straight Nose.

(4): Crankshaft (m) R503470, Tapered Nose.

(5): 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(6): Use with Stanadyne DE10 Injection Pump.

(7): Check application for proper usage.

(8): Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(9): These marking numbers RE59277, RE505100 require to use Ring Set TRE66271. Have been discontinued by John Deere

(10): Line Connections are both threaded.

(11): Line Connections are one hose barb & one threaded.

(12): Line Connections are two hose barbs.

(13): With Con Rod R500000.

(14): Machine split and fractured split connecting rods may both be used in the same engine, but the correct con rod bolts must be used for each connecting rod.

(15): Our gasket sets do not include the front and rear crankshaft seals

(16): 93mm – Use with R515365 and R515366 main bearing cap.

(17): 98mm – Use with R536082 and R535004 main bearing cap.

JOHN DEERE 6081 HIGH COMPRESSION PISTON, TO ESN 199,999

Engine Series:
PowerTech

Engine Model:
6081

Engine Desc:
Up to ESN 199,999

Engine Data:
8.1L Tier 1

Engine Info:
4801, 4803

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Con Rod (M):
R116340 (To ESN 86,536), R501034 (From ESN 86,537)

Piston (M):
RE70688, RE64509

Please see page **496** for a complete list of equipment models.

Engine O/H Kit
- TOK504201
- TOK504201A 17 11

Engine I/F Kit
- TIK504201
- TIK504201A 17 11
- Spec Sheet-TOK504201 TOK504202

Piston-Liner Kit
- TRE64509 15

Consists of:
- a) TRE70688
- b) TRE503528
- c) TR57771
- d) TR520212
- e) TAR98850
- f) TE1343FN

Main Bearing
- TRE529319 Std.
- TRE534181 0.0115

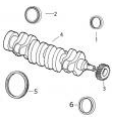
Use 6

Thrust Bearing
- TRE529320 Std.
- TRE534183 0.0115

Use 1

Con Rod Bearing
- TR116081 Std.
- TRE57167 0.0115

Use 6



1) **Front Seal**
- TAR49025

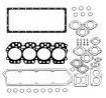
2) **Rear Seal**
- TRE520036

3) **Crankshaft, Gear**
- TR104587

4) **Crankshaft**
- TRE535300 1
- TRE534314 2

5) **Ring Gear**
- TR28811

6) **Rear Gear**
- TR63326

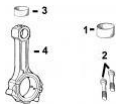


1) **O/H Gasket Set**
- TRE506220 13

2) **Head Gasket Set**
- TRE506222

3) **Head Gasket**
- TRE55475

4) **Oil Pan Gasket**
- TR71918 3
- TR520844 14



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR66452 x12 4
- TR501035 x12 4

3) **Bushing, Cam**
- TR87561 x4

4) **Con Rod**
- TRE53154 8
- TRE535555 9

1) **Plug, Camshaft**
- TR82007

2) **Oil Cooler**
- TAR55394

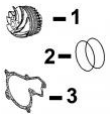
3) **Tappet**
- TR110126 x12

4) **Tensioner, Belt**
- TRE518097 7
- TRE68715 7
- TRE57498 7

5) **Head Bolt Kit**
- TRG24026

6) **Camshaft**
- TR120872

7) **Camshaft Kit**
- TRE57054 16



1) **Pump, Water**
- TRE521502
- TRE521503 10

2) **O'ring Mount Kit**
- TRE509463

3) **Water Pump Cover Gasket**
- TR119383

Valve, Intake
- TR84618 Std.
- TR93308 0.003
- TR93312 0.015

Valve, Exhaust
- TR84619 Std.
- TR93311 0.003
- TR93313 0.015

1) Insert, Valve In
- TR121193 Std.

2) Insert, Valve Ex
- TR119132 Std.

1) Cap, Valve
- TT20129

2) Lock, Valve
- TT20077

3) Shield, Valve
- TR102882 x6 5
- TR501640 x6 6

1) Spring, Valve
- TR91822

1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Housing Seal**
- TR136063

3) **Thermostat Cover**
- TRE502569

1) **Oil Pump**
- TRE60622

2) **Injector**
- TRE57152 7
- TRE61593 7
- TRE63073 7
- TRE64391 7

3) **Injector Washer**
- TR84472

1) **Oil Pressure Sensor**
- TRE167207 7

2) **Water Temp Sensor**
- TRE52722 7

3) **Crankshaft Sensor**
- TRE519144 7

1) **Turbocharger**
- TRE534396 7

2) **Main Bearing Cap Bolt**
- TR519287 x14

(1): With helical oil pump drive gear. Do not use with HPCR fuel system.

(2): With straight oil pump drive gear.

(3): With Aluminum Oil Pan use TR49377 (RE504822).

(4): Use TR66452 Rod Bolts with Machine Split Connecting Rods, and use TR501035 Rod Bolts with Fractured Split Connecting Rods.

(5): For engine ESN 199,999 and below. For Exhaust Valves only.

(6): For engine ESN 200,000 and above. For Exhaust Valves only.

(7): Check application for proper usage.

(8): Machine split connecting rod. Uses Rod Bolt TR66452.

(9): Fractured split connecting rod. Uses Rod Bolt TR501035.

(10): High Flow.

(11): For used with Fractured split connecting rod.

(12): Camshaft marked R120872.

(13): Our gasket sets do not include the front and rear crankshaft seals

(14): The TR520844 is the metal/rubber oil pan gasket, that is used on the applications were the oil pan is part of the frame. It is not included in the full gasket or the overhaul kits.

(15): To upgrade to cylinder kit with forged steel piston, order TDZ114645

(16): Contains TR120872 x 1 and TR110126 x 12.

(17): To upgrade to kit with forged steel pistons, order TDZ114647

JOHN DEERE 6081 LOW COMPRESSION PISTON, TO ESN 199,999

Engine Series:
PowerTech

Engine Model:
6081

Engine Desc:
Up to ESN 199,999

Engine Data:
8.1L Tier1

Engine Info:
4802, 4806

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Con Rod (M):
R116340 (To ESN 86,536), R501034 (From ESN 86,537)

Piston (M):
RE70689

Please see page **497** for a complete list of equipment models.

Engine O/H Kit
- TOK504202
- TOK504202A 17 11

Engine I/F Kit
- TIK504202
- TIK504202A 17 11
- Spec Sheet-TOK504201 TOK504202

Piston-Liner Kit
- TRE508156 16

Consists of:
- a) TRE70689
- b) TRE503528
- c) TR57771
- d) TR520212
- e) TAR98850
- f) TE1343FN

Main Bearing
- TRE529319 Std.
- TRE534181 0.0115

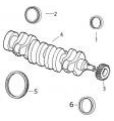
Use 6

Thrust Bearing
- TRE529320 Std.
- TRE534183 0.0115

Use 1

Con Rod Bearing
- TR116081 Std.
- TRE57167 0.0115

Use 6



1) **Front Seal**
- TAR49025

2) **Rear Seal**
- TRE520036

3) **Crankshaft, Gear**
- TR104587

4) **Crankshaft**
- TRE535300 1
- TRE534314 2

5) **Ring Gear**
- TR28811

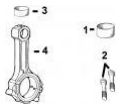
6) **Rear Gear**
- TR63326

1) **O/H Gasket Set**
- TRE506220 13

2) **Head Gasket Set**
- TRE506222

3) **Head Gasket**
- TRE55475

4) **Oil Pan Gasket**
- TR71918 3
- TR520844 14



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR66452 x12 4
- TR501035 x12 4

3) **Bush, Camshaft**
- TR87561 x4

4) **Con Rod**
- TRE53154 8
- TRE535555 9

1) **Plug, Camshaft**
- TR82007

2) **Oil Cooler**
- TAR55394

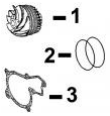
3) **Tappet**
- TR110126 x12

4) **Tensioner, Belt**
- TRE518097 7
- TRE68715 7
- TRE57498 7

5) **Head Bolt Kit**
- TRG24026

6) **Camshaft**
- TR120872

7) **Camshaft Kit**
- TRE57054 15



1) **Pump, Water**
- TRE521502
- TRE521503 10

2) **O'ring, Mount Kit**
- TRE509463

3) **Water Pump Cover Gasket**
- TR119383

Valve, Intake
- TR84618 Std.
- TR93308 0.003
- TR93312 0.015

Valve, Exhaust
- TR84619 Std.
- TR93311 0.003
- TR93313 0.015

1) **Insert, Valve In**
- TR121193 Std.

2) **Insert, Valve Ex**
- TR119132 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

3) **Shield, Valve**
- TR102882 x6 5
- TR501640 x6 6

1) **Spring, Valve**
- TR91822

1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Housing Seal**
- TR136063

3) **Thermostat Cover**
- TRE502569

1) **Oil Pump**
- TRE60622

2) **Injector**
- TRE57152 7
- TRE61593 7
- TRE63073 7
- TRE64391 7

3) **Injector Washer**
- TR84472

1) **Oil Pressure Sensor**
- TRE167207 7

2) **Water Temp Sensor**
- TRE52722 7

3) **Crankshaft Sensor**
- TRE519144 7

1) **Turbocharger**
- TRE534396 7

2) **Main Bearing Cap Bolt**
- TR519287 x14

(1): With helical oil pump drive gear. Do not use with HPCR fuel system.

(2): With straight oil pump drive gear.

(3): With Aluminum Oil Pan use TR49377 (RE504822).

(4): Use TR66452 Rod Bolts with Machine Split Connecting Rods, and use TR501035 Rod Bolts with Fractured Split Connecting Rods.

(5): For engine ESN 199,999 and below. For Exaust Valves only.

(6): For engine ESN 200,000 and above. For Exaust Valves only.

(7): Check application for proper usage.

(8): Machine split connecting rod. Uses Rod Bolt TR66452.

(9): Fractured split connecting rod. Uses Rod Bolt TR501035.

(10): High Flow.

(11): For used with Fractured split connecting rod.

(12): Camshaft marked R120872.

(13): Our gasket sets do not include the front and rear crankshaft seals

(14): The TR520844 is the metal/rubber oil pan gasket, that is used on the applications were the oil pan is part of the frame. It is not included in the full gasket or the overhaul kits.

(15): Contains TR120872 x 1 and TR110126 x 12.

(16): To upgrade to cylinder kit with forged steel piston, order TDZ114645

(17): To upgrade to kit with forged steel pistons, order TDZ114647

JOHN DEERE 6081 FORGED STEEL PISTON, FROM ESN 200,000 AND UP

Engine Series:
PowerTech

Engine Model:
6081

Engine Desc:
8.1L Tier 2 & Tier 3 from ESN 200,000

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.56 in / 116 mm Pin Ø: 1.8742 in / (+/- .0002) = 47 mm

Con Rod (M):
RE535555

Piston (M):
DZ114299

Please see page **498** for a complete list of equipment models.

Engine O/H Kit
- TDZ114647
- SPEC SHEET - TDZ114647

Piston-Liner Kit
- TDZ114645

Consists of:
- a) TDZ114299
- b) TRE503528
- c) TR57771
- d) TR520212
- e) TAR98850
- f) TE1343FN

Main Bearing
- TRE529319 Std.
- TRE534181 0.0115

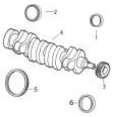
Use 6

Thrust Bearing
- TRE529320 Std.
- TRE534183 0.0115

Use 1

Con Rod Bearing
- TR116081 Std.
- TRE57167 0.0115

Use 6



1) **Front Seal**
- TAR49025 5
- TRE543639 5

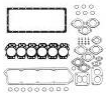
2) **Rear Seal**
- TRE520036

3) **Crankshaft, Gear**
- TR104587

4) **Crankshaft**
- TRE535300 1
- TRE534314 2

5) **Ring Gear**
- TR28811

6) **Rear Gear**
- TR63326



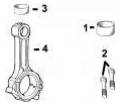
1) **O/H Gasket Set**
- TRE527551 8

2) **Head Gasket Set**
- TRE527552

3) **Head Gasket**
- TRE55475

4) **Oil Pan Gasket**
- TR532464 3
- TR520844 4

5) **Rocker Cover Seal**
- TR502598
- TR502719



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR501035 x12

3) **Bushing, Cam**
- TR87561 x4

4) **Con Rod**
- TRE535555

1) **Plug, Camshaft**
- TR82007

2) **Oil Cooler**
- TAR55394

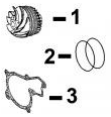
3) **Tappet**
- TR110126 x12

4) **Tensioner, Belt**
- TRE518097 6
- TRE68715 6
- TRE57498 6

5) **Head Bolt Kit**
- TRE506501

6) **Camshaft**
- TR120872

7) **Camshaft Kit**
- TRE57054 7



1) **Pump, Water**
- TRE521502

2) **O'ring Mount Kit**
- TRE509463

3) **Water Pump Cover Gasket**
- TR119383

Valve, Intake
- TR84618 Std.
- TR93308 0.003
- TR93312 0.015

Valve, Exhaust
- TR84619 Std.
- TR93311 0.003
- TR93313 0.015

1) **Insert, Valve In**
- TR121193 Std.

2) **Insert, Valve Ex**
- TR119132 Std.

1) **Cap, Valve**
- TT20129

2) **Lock, Valve**
- TT20077

3) **Shield, Valve**
- TR501640 x6

Spring, Valve
- TR502187

1) **Thermostat**
- TAR48675 180° F

2) **Thermostat Housing Seal**
- TR136063

3) **Thermostat Cover**
- TRE502569

1) **Oil Pump**
- TRE60622

2) **Main Bearing Cap Bolt**
- TR519287 x14

3) **Injector**
- TRE524363 x6 6
- TRE524360 x6 6
- TRE524361 x6 6
- TRE524362 x6 6
- TRE524364 x6 6

1) **Oil Pressure Sensor**
- TRE167207 6

2) **Water Temp Sensor**
- TRE52722 6

3) **Crankshaft Sensor**
- TRE519144 6

4) **Temperature Sensor**
- TRE522823 6

(1): With helical oil pump drive gear. Do not use with HPCR fuel system.

(2): With straight oil pump drive gear.

(3): Paper Gasket.

(4): The TR520844 is the metal/rubber oil pan gasket, that is used on the applications were the oil pan is part of the frame. It is not included in the full gasket or the overhaul kits.

(5): Both Front Seal are included in the Kit.

(6): Check application for proper usage.

(7): Contains TR120872 x 1 and TR110126 x 12.

(8): Our gasket sets do not include the front and rear crankshaft seals

(9): Check application for proper usage

JOHN DEERE POWERTECH 6090 9.0L TIER 2 & 3, PISTON # RE529264

Engine Series:
PowerTech

Engine Model:
6090

Engine Desc:
9.0L Tier 2 & Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.664 in / 118.35 mm
Stroke: 5.400 in / 136 mm

Please see page **499** for a complete list of equipment models.

Engine O/H Kit
- TDZ10599

Engine I/F Kit
- TIK10599
- SPEC SHEET - TDZ10599

Piston-Liner-Kit
- TDZ10211

Consists of:
- a) TRE529264
- b) TRE539642
- c) TR517073
- d) TR530609 10
- e) TAR98850
- f) TR519640

Use 6

Main Bearing
- TRE529319 Std.
- TRE534181 0.0115

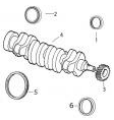
Use 6

Thrust Bearing
- TRE529320 Std.
- TRE534183 0.0115

Use 1

Con Rod Bearing
- TRE529318 Std.
- TRE529318A 0.0115

Use 6



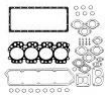
1) **Front Seal**
- TRE543639

2) **Rear Seal**
- TRE520036
- TRE530121 6

3) **Crankshaft**
- TRE540429 8

4) **Crankshaft, Gear**
- TR104587

5) **Ring Gear**
- TR28811



1) **O/H Gasket Set**
- TRE528400 9

2) **Head Gasket Set**
- TRE528402

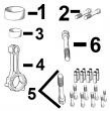
3) **Head Gasket**
- TR525541

4) **Oil Pan Gasket**
- TR532464 1
- TR520844 2

5) **Valve Cover**
- TR527884 4
- TR526607 5

6) **Intake Manifold Gsk**
- TR518260

7) **Exhaust Manifold Gsk**
- TR519361



1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TR501035 x12 7

3) **Bushing, Cam**
- TR527877 x6

4) **Conrod**
- TRE535554

5) **Bolt, Exhaust Manifold**
- TMX6090E x1 15
- TR521323 x11

6) **Bolt, Cyl Head**
- TDZ100946 x26
- TRE528399 (Kit)

1) **Plug, Camshaft**
- TR82007

2) **Oil Cooler**
- TAR55394

3) **Tappet**
- TRE540586 x12

4) **Tensioner, Belt**
- TRE518097 3
- TRE57498 3
- TRE68715 3
- TRE243154 3

5) **Camshaft**
- TR522884

1) **Pump, Oil**
- TRE543187

2) **Main Bearing Cap Bolt**
- TR519287 x14

Valve, Intake
- TR520223 Std.

Valve, Exhaust
- TR520224 Std.

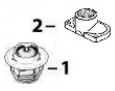
Insert, Valve
- TR527285 Std. 12
- TR522049 Std. 13

1) **Guide, Valve**
- TR527286

2) **Lock, Valve**
- TR520798

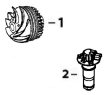
1) **Spring, Valve**
- TR504235

2) **Seal, Valve Stm**
- TRE529187



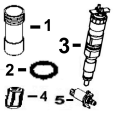
1) **Thermostat**
- TRE528652 175° F 3
- TDZ100553 180° F 3

2) **Thermostat Cover**
- TRE502569



1) **Water Pump**
- TRE530194

2) **Fuel Transfer Pump**
- TRE539761 3



1) **Injector Tube**
- TRE543935 x6

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

3) **Injector**
- TDZ100221 7
- TDZ100223 7

4) **Pressure Relief Valve**
- TRE516335 7

5) **Suction Control Valve**
- TDZ111136 7
- TDZ111138 7
- TDZ111141 7

1) **Oil Pressure Sensor**
- TRE167207 7

2) **Water Temp Sensor**
- TRE52722 7

3) **Crankshaft Sensor**
- TRE519144 7

4) **Fuel Pressure Sensor**
- TRE522794 7
- TRE523811 7

5) **Temperature Sensor**
- TRE522823 7

1) **Cylinder Head**
- TR525583UF 14

Valvetrain Kit
- TR525583UF-VTK 11

2) **Turbocharger**
- TRE531288 7

(1): Paper Gasket.

(2): Metal / Rubber Gasket.

(3): Check application for proper usage.

(4): Use with RE529972 Valve Cover.

(5): Use with RE536705 Valve Cover.

(6): Flanged Seal.

(7): Check for proper application.

(8): Crankshaft rear palm has 6 bolt holes for attaching flywheel and is made for wide rods and rod bearings.

(9): Our gasket sets do not include the front and rear crankshaft seals

(10): With Shim.

(11): Kit includes intake and exhaust valves, valve springs, valve seals, and valve locks.

(12): Has a depth of .218”

(13): Has a depth of .237”

(14): Check application for proper usage, Cylinder head uses feed tubes TRE531195.

(15): Includes11x R521323 BOLT, Length 100mm11x R520632 SPACER, Length 69mm1x R520410 BOLT, Length 120mm4x R520121 BOLT, Length 30mm

JOHN DEERE POWERTECH 6090 9.0L TIER 4, PISTON # RE555132

Engine Series:
PowerTech

Engine Model:
6090

Engine Desc:
9.0L Tier 4

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.664 in / 118.35 mm
Stroke: 5.400 in / 136 mm

Piston (M):
RE555132

Please see page **500** for a complete list of equipment models.

Engine O/H Kit
- TDZ110431

Engine I/F Kit
- TIK110431 1
- SPEC SHEET - TDZ110431

Piston-Liner-Kit
- TDZ110134

Consists of:
- a) TRE555132
- b) TRE539642
- d) TR530609 10
- e) TAR98850
- f) TR519640

Use 6

Main Bearing
- TRE529319 Std.
- TRE534181 0.0115

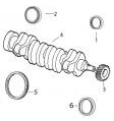
Use 6

Thrust Bearing
- TRE529320 Std.
- TRE534183 0.0115

Use 1

Con Rod Bearing
- TRE538581 Std.

Use 6



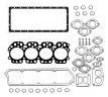
1) **Front Seal**
- TDZ123164

2) **Rear Seal**
- TDZ121137
- TRE530121 6

3) **Crankshaft**
- TRE565972 8

4) **Crankshaft, Gear**
- TR104587

5) **Ring Gear**
- TR28811



1) **O/H Gasket Set**
- TDZ113616 9

2) **Head Gasket Set**
- TDZ109211

3) **Head Gasket**
- TR525541

4) **Oil Pan Gasket**
- TR520844 3
- TDZ117888 3
- TDZ117889 3
- TDZ112737 3
- TDZ112738 3

5) **Valve Cover Gasket**
- TR526607

6) **Front Timing Gasket**
- TDZ126340

7) **Exhaust Manifold Gsk**
- TR534605 x6

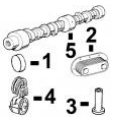
1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TDZ120913 x12 3

3) **Bushing, Cam**
- TR527877 x6

4) **Connecting Rod**
- TDZ120166

6) **Bolt, Cyl Head**
- TDZ100946 x26
- TRE528399 (Kit)



1) **Plug, Camshaft**
- TR82007

2) **Oil Cooler**
- TRE537196

3) **Tappet**
- TDZ116648 x12

4) **Tensioner, Belt**
- TRE506352 3

5) **Camshaft**
- TR522884

1) **Pump, Oil**
- TRE538136

2) **Main Bearing Cap Bolt**
- TR519287 x14

Valve, Intake
- TR520223 Std.

Valve, Exhaust
- TR520224 Std.

Insert, Valve
- TR527447 Std.

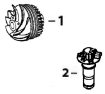
1) **Guide, Valve**
- TR527286

2) **Lock, Valve**
- TR520798

1) **Spring, Valve**
- TR504235

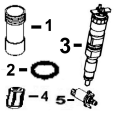
2) **Seal, Valve Stm**
- TRE529187

Thermostat
- TRE554015 180° F 3
- TDZ100553 180° F 3



1) **Water Pump**
- TDZ102107

2) **Fuel Transfer Pump**
- TRE539761 3



1) **Injector Tube**
- TRE543935 x6

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

3) **Injector**
- TRE555914 3
- TDZ100223 3
- TRE543606 3

4) **Pressure Relief Valve**
- TRE516335 3

5) **Suction Control Valve**
- TDZ111136 3
- TDZ111138 3
- TDZ111141 3

1) **Oil Pressure Sensor**
- TRE167207 3

2) **Water Temp Sensor**
- TRE52722 3

3) **Crankshaft Sensor**
- TRE519144 3

4) **Fuel Pressure Sensor**
- TRE522794 3
- TRE523811 3

5) **Temperature Sensor**
- TRE522823 3

Cylinder Head
- TR525583UF 12

Valvetrain Kit
- TR525583UF-VTK 11

(1): Oil pan gasket not included in in-frame kit. Oil pan gasket is application specific and must be ordered separately.

(2):

(3): Check application for proper usage.

(4): Use with RE529972 Valve Cover.

(5): Use with RE536705 Valve Cover.

(6): Flanged Seal.

(7):

(8): 10 bolt rear flange. Includes 27T straight tooth crank gear.

(9): The TDZ113616 gasket set includes the front and rear crankshaft seals

(10): With Shim.

(11): Kit includes intake and exhaust valves, valve springs, valve seals, and valve locks.

(12): Check application for proper usage, Cylinder head uses feed tubes TRE531195.

JOHN DEERE POWERTECH 6090 9.0L TIER 4, PISTON # DZ102298

Engine Series:
PowerTech

Engine Model:
6090

Engine Desc:
9.0L Tier 4

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.664 in / 118.35 mm
Stroke: 5.400 in / 136 mm

Piston (M):
DZ102298

Please see page **501** for a complete list of equipment models.

Engine O/H Kit
- TDZ110430

Engine I/F Kit
- TIK110430 1
- SPEC SHEET - TDZ110431

Piston-Liner-Kit
- TDZ110135

Consists of:
- a) TDZ102298
- b) TRE539642
- d) TR530609 10
- e) TAR98850
- f) TR519640

Use 6

Main Bearing
- TRE529319 Std.
- TRE534181 0.0115

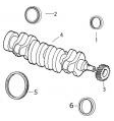
Use 6

Thrust Bearing
- TRE529320 Std.
- TRE534183 0.0115

Use 1

Con Rod Bearing
- TRE538581 Std.

Use 6



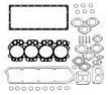
1) **Front Seal**
- TDZ123164

2) **Rear Seal**
- TDZ121137
- TRE530121 6

3) **Crankshaft**
- TRE565972 8

4) **Crankshaft, Gear**
- TR104587

5) **Ring Gear**
- TR28811



1) **O/H Gasket Set**
- TDZ113616 9

2) **Head Gasket Set**
- TDZ109211

3) **Head Gasket**
- TR525541

4) **Oil Pan Gasket**
- TR520844 3
- TDZ117888 3
- TDZ117889 3
- TDZ112737 3
- TDZ112738 3

5) **Valve Cover Gasket**
- TR526607

6) **Front Timing Gasket**
- TDZ126340

7) **Exhaust Manifold Gsk**
- TR534605 x6

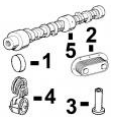
1) **Bush, Con Rod**
- TR74008 x6

2) **Bolt, Con Rod**
- TDZ120913 x12 3

3) **Bushing, Cam**
- TR527877 x6

4) **Connecting Rod**
- TDZ120166

6) **Bolt, Cyl Head**
- TDZ100946 x26
- TRE528399 (Kit)



1) **Plug, Camshaft**
- TR82007

2) **Oil Cooler**
- TRE537196

3) **Tappet**
- TDZ116648 x12

4) **Tensioner, Belt**
- TRE506352 3

5) **Camshaft**
- TR522884

1) **Pump, Oil**
- TRE538136

2) **Main Bearing Cap Bolt**
- TR519287 x14

Valve, Intake
- TR520223 Std.

Valve, Exhaust
- TR520224 Std.

Insert, Valve
- TR527447 Std.

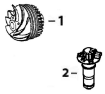
1) **Guide, Valve**
- TR527286

2) **Lock, Valve**
- TR520798

1) **Spring, Valve**
- TR504235

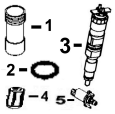
2) **Seal, Valve Stm**
- TRE529187

Thermostat
- TRE554015 180° F 3
- TDZ100553 180° F 3



1) **Water Pump**
- TDZ102107

2) **Fuel Transfer Pump**
- TRE539761 3



1) **Injector Tube**
- TRE543935 x6

2) **Injector Tube O-Ring**
- TRE528349
- TRE530609

3) **Injector**
- TRE555914 3
- TDZ100223 3

4) **Pressure Relief Valve**
- TRE516335 3

5) **Suction Control Valve**
- TDZ111136 3
- TDZ111138 3
- TDZ111141 3

1) **Oil Pressure Sensor**
- TRE167207 3

2) **Water Temp Sensor**
- TRE52722 3

3) **Crankshaft Sensor**
- TRE519144 3

4) **Fuel Pressure Sensor**
- TRE522794 3
- TRE523811 3

5) **Temperature Sensor**
- TRE522823 3

Cylinder Head
- TR525583UF 12

Valvetrain Kit
- TR525583UF-VTK 11

(1): Oil pan gasket not included in in-frame kit. Oil pan gasket is application specific and must be ordered separately.

(2):

(3): Check application for proper usage.

(4): Use with RE529972 Valve Cover.

(5): Use with RE536705 Valve Cover.

(6): Flanged Seal.

(7):

(8): 10 bolt rear flange. Includes 27T straight tooth crank gear.

(9): The TDZ113616 gasket set includes the front and rear crankshaft seals

(10): With Shim.

(11): Kit includes intake and exhaust valves, valve springs, valve seals, and valve locks.

(12): Check application for proper usage, Cylinder head uses feed tubes TRE531195.

JOHN DEERE POWERTECH 6125, PISTON # RE505901, RE518748, RE524324

Engine Series:
PowerTech

Engine Model:
6125

Engine Desc:
6125A/H

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 5.00 in / 127.00 mm
Stroke: 6.500 in / 165.00 mm

Piston (M):
RE505901, RE518748, RE524324

Please see page **502** for a complete list of equipment models.

Engine O/H Kit
- TRE527659 1
- TRE535191 2
- TRE535191A 3

Engine I/F Kit
- TIK527659 1
- TIK535191 2
- TIK535191A 3

Piston-Liner-Kit
- TRE519111

Consists of:
- a) TRE524324
- b) TRE515941
- c) TR64451
- d) TR518451
- e) TAR72531
- f) TN51168

Use 6

Main Bearing
- TRE530785 Std.
- TRE531764 .010"

Use 6

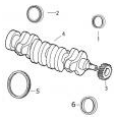
Thrust Bearing
- TRE530786 Std.
- TRE531766 .010"

Use 1

Thrust Washer Set
- TRE530885

Con Rod Bearing
- TRE534626 Std. 1
- TRE534627 .010" 1
- TRE534628 .020" 1
- TRE63811 Std. 2
- TRE68703 .010" 2
- TRE68704 .020" 2
- TRE562584 Std. 3
- TRE531768 .010" 3
- TRE531769 .020" 3

Use 6



1) **Front Seal**
- TRE54073

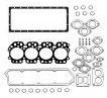
2) **Rear Seal**
- TRE53687

3) **Crankshaft**

4) **Crankshaft, Gear**

5) **Ring Gear**

6) **Main Bearing Cap Bolt**
- TR518579 x14 8



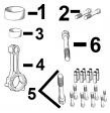
1) **O/H Gasket Set**
- TRE535190 4

2) **Head Gasket Set**
- TRE537388

3) **Head Gasket**
- TDZ107052

4) **Oil Pan Gasket**
- TR519752

5) **Valve Cover Gasket**
- TR505677



1) **Bush, Con Rod**
- TR69045 x6

2) **Bolt, Con Rod**
- TR66453 x12 5
- TR501380 x12 6

3) **Bushing, Cam**
- TR532008 x4

4) **Connecting Rod**

5) **Bolt, Cyl Head**
- TR519524 x26
- TRE530817 (Kit)

Pump, Oil

Valve, Intake & Exhaust
- TR122035 Std.

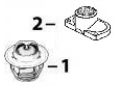
Insert, Valve
- TR504713 Std.

1) **Guide, Valve**
- TDZ114146

2) **Lock, Valve**
- TR91889

1) **Spring, Valve**
- TR133891

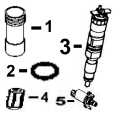
2) **Seal, Valve Stm**
- TRE66635



1) **Thermostat**
- TRE33705 7
- TRE522076 7

Thermostat Gasket

Water Pump
- TRE549153



1) **Injector Tube**
- TRE531334 x6

2) **Injector Tube O-Ring**
- TT122075 x6
- TR516443 x6

3) **Injector**

1) **Oil Pressure Switch**
- TRE167207

2) **Coolant Temp Sensor**
- TRE48419

3) **Magnetic Pickup Sensor**
- TRE519144

(1): To ESN 10,513 or engines with machined split connecting rods
(2): ESN 10,514 – 57,910 or engines with fractured split connecting rods
(3): From ESN 57,911
(4): Does not include crankshaft seals
(5): Use with machined split rods only.
(6): Use with fractured split rods only.
(7): Check application for proper usage
(8): From ESN 45,314

Engine Series: PowerTech

Engine Model: 6125

Engine Desc: 6125A/H

Engine Info: 6 Cyl

Engine Dimensions: Bore: 5.00 in / 127.00 mm Stroke: 6.500 in / 165.00 mm

Piston (M): RE515356, RE517209, RE524325

Farm Tractors		Self Propelled Forage Harvesters		Engine Model	
9620	9620T	7300	7400	6125HF070	6125HRW18
		7500	7700	6125HZ007	6125HZ008
		7800		6125HZ009	6125HZ013

Engine O/H Kit
- TRE535192 [1]
- TRE535192A [2]

Engine I/F Kit
- TIK535192 [1]
- TIK535192A [2]

Piston-Liner-Kit
- TRE515942

Consists of:
- a) TRE524325
- b) TRE515941
- c) TR64451
- d) TR518451
- e) TAR72531
- f) TN51168

Use 6

Main Bearing
- TRE530785 Std.
- TRE531764 .010"

Use 6

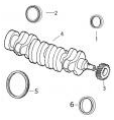
Thrust Bearing
- TRE530786 Std.
- TRE531766 .010"

Use 1

Thrust Washer Set
- TRE530885

Con Rod Bearing
- TRE63811 Std. [1]
- TRE68703 .010" [1]
- TRE68704 .020" [1]
- TRE562584 Std. [2]
- TRE531768 .010" [2]
- TRE531769 .020" [2]

Use 6



1) Front Seal
- TRE54073

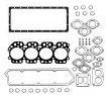
2) Rear Seal
- TRE53687

3) Crankshaft

4) Crankshaft, Gear

5) Ring Gear

6) Main Bearing Cap Bolt
- TR518579 x14 [3]



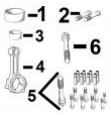
1) O/H Gasket Set
- TRE535190 [4]

2) Head Gasket Set
- TRE537388

3) Head Gasket
- TDZ107052

4) Oil Pan Gasket
- TR519752

5) Valve Cover Gasket
- TR505677



1) Bush, Con Rod
- TR69045 x6

2) Bolt, Con Rod
- TR501380 x12 [5]

3) Bushing, Cam
- TR532008 x4

4) Connecting Rod

5) Bolt, Cyl Head
- TR519524 x26
- TRE530817 (Kit)

Pump, Oil

Valve, Intake & Exhaust
- TR122035 Std.

Insert, Valve
- TR504713 Std.

1) Guide, Valve
- TDZ114146

2) Lock, Valve
- TR91889

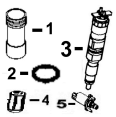
1) Spring, Valve
- TR133891

2) Seal, Valve Stm
- TRE66635

1) Thermostat
- TRE33705 [6]
- TRE522076 [6]

Thermostat Gasket

Water Pump
- TRE549153



1) Injector Tube
- TRE531334 x6

2) Injector Tube O-Ring
- TT122075 x6
- TR516443 x6

3) Injector

1) Oil Pressure Switch
- TRE167207

2) Coolant Temp Sensor
- TRE48419

3) Magnetic Pickup Sensor
- TRE519144

(1): ESN 10,514 – 57,910
(2): From ESN 57,911
(3): From ESN 45,314
(4): Does not include crankshaft seals
(5): Use with fractured split rods only. Machined split rods use capscrew TR66453
(6): Check application for proper usage

JOHN DEERE POWERTECH 6135, PISTON # R517128 TIER 3

Engine Series:
PowerTech

Engine Model:
6135

Engine Desc:
6135H - Tier 3 Applications

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 5.197 in / 132.00 mm
Stroke: 6.496 in / 164.00 mm

Piston (M):
R517128

Please see page **503** for a complete list of equipment models.

Engine O/H Kit
- TRE530813

Engine I/F Kit
- TIK530813
- SPEC SHEET - TRE530813

Piston-Liner-Kit
- TRE559262

Consists of:
- a) TR517128
- b) TDZ107053
- c) TDZ101960
- d) TR534711
- e) TRE547712
- f) T40M7313

Use 6

Main Bearing
- TRE530785 Std.
- TRE531764 .010"

Use 6

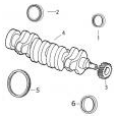
Thrust Bearing
- TRE530786 Std.
- TRE531766 .010"

Use 1

Thrust Washer Set
- TRE530885

Con Rod Bearing
- TRE562584 Std.
- TRE531768 .010"
- TRE531769 .020"

Use 6



1) **Front Seal**
- TRE54073 1
- TRE527102 1

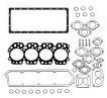
2) **Rear Seal**
- TRE53687 5 1
- TDZ121137 1

3) **Crankshaft**

4) **Crankshaft, Gear**

5) **Ring Gear**

6) **Main Bearing Cap Bolt**
- TR518579 x14



1) **O/H Gasket Set**
- TRE535195 4

2) **Head Gasket Set**
- TRE530816

3) **Head Gasket**
- TDZ107052

4) **Oil Pan Gasket**
- TR519752

5) **Valve Cover Gasket**
- TR521520

1) **Bush, Con Rod**
- TR517160 x6

2) **Bolt, Con Rod**
- TR501380 x12

3) **Bushing, Cam**
- TR532008 x4

4) **Connecting Rod**

5) **Bolt, Cyl Head**
- TR519524 x26 2
- TRE530817 (Kit) 2
- TR526856 x26 3
- TRE541424 (Kit) 3

6) **Bolt, Exhaust Manifold**
- TDZ10469 x12

Pump, Oil

Valve, Intake & Exhaust
- TR518328 Std.

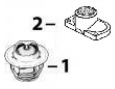
Insert, Valve
- TR518327 Std.

1) **Guide, Valve**
- TDZ114146

2) **Lock, Valve**
- TR520798

1) **Spring, Valve**
- TR133891

2) **Seal, Valve Stm**
- TRE523985

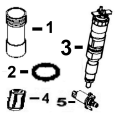


1) **Thermostat**
- TRE527611 Upper
- TRE527612 Lower

Thermostat Gasket
- TR524618

Water Pump
- TRE549117

Belt Tensioner
- TDZ10469



1) **Injector Tube**
- TRE531334 x6

2) **Injector Tube O-Ring**
- TT122075 x6
- TR516443 x6

3) **Injector**
- TDZ121294 1

1) **Oil Pressure Switch**
- TRE167207

2) **Coolant Temp Sensor**
- TRE48419

3) **Magnetic Pickup Sensor**
- TRE519144

(1): Check application for proper usage
(2): To ESN 25,930
(3): From ESN 25,931
(4): Includes front crank seals TRE54073 and TRE527102. Rear crank seal must be ordered separately.
(5): Flanged seal
(6): Front seals included in gasket set.

Engine Series:
100

Engine Model:
104-22 (KR, KRC, KRG)

Engine Desc:
NATURALLY ASPIRATED

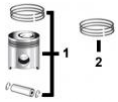
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 135 in3 / 2.216 Lt
Compression Ratio: 22:1

Please see page **504** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK404 Std.
- POK405 0.50

2) **Basic Engine Kit**
- PBK404 Std.
- PBK405 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017491 Std.
- P115017491B 0.50

4 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

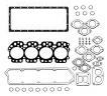
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 3

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020



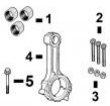
1) **O/H Gasket Set**
- PU5LC0017 1

2) **Cyl Head Gsk**
- P111147741

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920



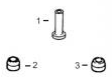
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

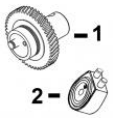
1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 5

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8266

2) **Oil Cooler**
- P2486A218 2

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206182

3) **Injector**
- P131406490

4) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111017420UF

1) **Glowplug**
- P185366190

2) **Oil Pressure Switch**
- P185246060 4

3) **Temp Sensor**
- P385720101 4

4) **Water Temp Sensor**
- P385720230 4

(1): Does not include Crankshaft Oil Seals.

(2): "KR" build ONLY.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the keyway P/N P030509020, must be used.

(4): Check for proper application.

(5): Not included in valve train kit.

Engine Series:
400

Engine Model:
403C-15 (HL,HLC,HLG)

Engine Desc:
NATURALLY ASPIRATED

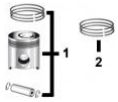
Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.5 in / 90.00 mm
Displacement: 91 in3 / 1.496 Lt
Compression Ratio: 22.5:1

Please see page **505** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK316 Std. [5]
- POK317 0.50 [5]

2) **Basic Engine Kit**
- PBK316 Std.
- PBK317 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017541 Std.
- P115017541B 0.50

3 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs

Con Rod Bearing Set
- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs

1) **Thrust Washer**
- P199266200 x2

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

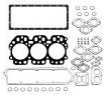
2) **Rear Seal**
- P198636170

3) **Crankshaft**
- P115256950 [6]

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



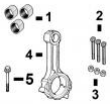
1) **O/H Gasket Set**
- PU5LC0018

2) **Cyl Head Gsk**
- P111147501

3) **Seal Rocker Box**
- P120996140

4) **Seal, Cyl HD Cov**
- P111996410

5) **Oil Pan Gasket**
- P110996910



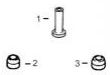
1) **Bush, Con Rod**
- P198517265 x3

2) **Bolt, Con Rod**
- P115176140 x6

3) **Nut, Con Rod**
- P020109120 x6

4) **Connecting Rod**
- P115026251

5) **Head Bolt**
- P111136480 x11
- P111136490 x3



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x3

3) **Seal, Exh Valve**
- P120406050 x3

Valve Train Kit
- PVTK308

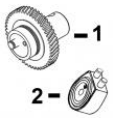
1) **Valve, Intake**
- P120166350 x3

2) **Valve, Exhaust**
- P120176360 x3

3) **Spring, Valve**
- P198217470 x6

4) **Retainer, Valve Spring**
- P120186080 x6 [4]

5) **Lock, Valve**
- P120226070 x12



1) **Oil Pump**
- PU5MK8266

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206182

3) **Atomiser**
- P131406490 [1]

4) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- P145017951 [3]

2) **Gasket, W Pump**
- P145996921

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111018050UF

1) **Glowplug**
- P185366190 [2]

2) **Water Temp Sensor**
- P385720500 [3]
- PW85720580 [3]

(1): Use with HL and HLC Builds.

(2): Use with HL Build.

(3): Check for proper application.

(4): Not included in valve train kit.

(5): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.

(6): Not compatible with engines that have a crank driven balancer unit.

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
400	403C-17 (HM) 403D-17 (GS)	NATURALLY ASPIRATED	3 Cyl	Bore: 3.3 in / 84.00 mm Stroke: 3.9 in / 100.00 mm Displacemement: 101.4 in3 /1.662 Lt Compression Ratio: 22.5:1

Case-IH-Farm Tractors

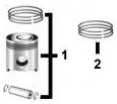
D35
DX34
DX35

New Holland-Farm Tractors

BOOMER 2035
T1520
T2220
TC34DA
TC35
TC35A
TC35D
TC35DA

1) Engine O/H Kit
- POK318 Std. 5
- POK319 0.50 5

2) Basic Engine Kit
- PBK318 Std.
- PBK319 0.50
- Spec Sheet - 400C Series



1) Piston & Ring Kit
- P115017491 Std.
- P115017491B 0.50

3 Per Engine

2) Ring Set
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs

Con Rod Bearing Set
- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs

1) Thrust Washer
- P199266200 x2

2) Crank Bushing
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

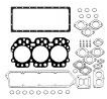
1) Front Seal
- P198636160

2) Rear Seal
- P050209083

3) Crankshaft Gear
- PU15276270

4) Key, Crank Gear
- P030509020

5) Flywheel Ring Gear
- P115376040 109T
- PU15376160 126T



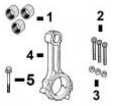
1) O/H Gasket Set
- PU5LC0018 4 3

2) Cyl Head Gsk
- P111147501

3) Seal Rocker Box
- P120996140

4) Seal, Cyl HD Cov
- P111996410

5) Oil Pan Gasket
- P110996910



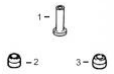
1) Bush, Con Rod
- P198517265 x3

2) Bolt, Con Rod
- P115176140 x6

3) Nut, Con Rod
- P020109120 x6

4) Connecting Rod
- P115026330

5) Head Bolt
- P111136480 x11
- P111136490 x3



1) Tappet
- P120116160

2) Seal, Intk Valve
- P120406070 x3

3) Seal, Exh Valve
- P120406050 x3

Valve Train Kit
- PVTK309

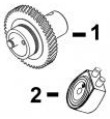
1) Valve, Intake
- P120166350 x3

2) Valve, Exhaust
- P120176360 x3

3) Spring, Valve
- P198216700 x6

4) Retainer, Valve Spring
- P120186080 x6

4) Lock, Valve
- P120226070 x12



1) Oil Pump
- PU5MK8266
- PU5MK8267 1

2) Oil Cooler
- P2486A218

1) Lift Pump
- P130506351

2) Thermostat
- P145206182
- P145206230 1

3) Atomiser
- P131406490 1

1) Water Pump
- P145017951
- PU45010062 1

2) Gasket, W Pump
- P145996921

Repair Sleeve
- 84RS

1) Glowplug
- P185366190 1

2) Water Temp Sensor
- PW85720580 2

(1): Use with GS Build, 403D-17 Engine.
(2): Check for proper application.
(3): Depending on the serial number or production date, the TC35, TC35D, D35 & DX35 may require additional manifold gaskets not offered in PU5LC0018.
(4): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.

Engine Series:
400

Engine Model:
403A-15 (GU)
403D-15 (GK)

Engine Data:
NATURALLY ASPIRATED

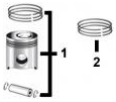
Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.54 in / 90.00 mm
Displacemement: 91.5 in3 /1.5 Lt
Compression Ratio: 22.5:1

Please see page **506** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK349 Std. 4
- POK350 0.50 4

2) **Basic Engine Kit**
- PBK349 Std.
- PBK350 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017541 Std.
- P115017541B 0.50

3 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs

Con Rod Bearing Set
- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs

1) **Thrust Washer**
- P199266200 x2

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

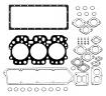
2) **Rear Seal**
- P198636170

3) **Crankshaft**
- P115256950 4

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- PU5LC0018 3

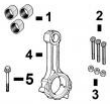
2) **Cyl Head Gsk**
- P111147501

3) **Seal Rocker Box**
- P120996140

4) **Seal, Cyl HD Cov**
- P111996410

5) **Timing Cover Gsk**
- P165996630

6) **Oil Pan Gasket**
- P110996910



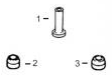
1) **Bush, Con Rod**
- P198517265 x3

2) **Bolt, Con Rod**
- P115176140 x6

3) **Nut, Con Rod**
- P020109120 x6

4) **Connecting Rod**
- P115026251

5) **Head Bolt**
- P111136480 x11
- P111136490 x3



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x3

3) **Seal, Exh Valve**
- P120406050 x3

Valve Train Kit
- PVTK309

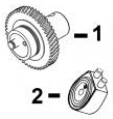
1) **Valve, Intake**
- P120166350 x3

2) **Valve, Exhaust**
- P120176360 x3

3) **Spring, Valve**
- P198216700 x6

4) **Retainer, Valve Spring**
- P120186080 x6

5) **Lock, Valve**
- P120226070 x12



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206230

3) **Injector**
- P131406490 1

4) **Pre-Fuel Filter Assy**
- P130306380

Water Pump
- PU45010062

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111011050UF

1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- P385720500 2
- PW85720580 2

(1): Use with GK Build, 403D-15 Engine.

(2): Check for proper application.

(3): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.

(4): Not compatible with engines that have a crank driven balancer unit.

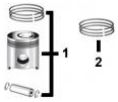
Engine Series:	Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
400	403D-15T (GL)	TURBOCHARGED	3 Cyl	Bore: 3.3 in / 84.00 mm Stroke: 3.54 in / 90.00 mm Displacemement: 91.5 in3 / 1.5 Lt Compression Ratio: 22.5:1

Takeuchi

TW40 - Comp Wheel Loader

1) **Engine O/H Kit**
- POK351 Std.
- POK352 0.50

2) **Basic Engine Kit**
- PBK351 Std.
- PBK352 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

3 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

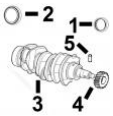
Set of 3 Pairs

Con Rod Bearing Set
- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs

1) **Thrust Washer**
- P199266200 x2

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020



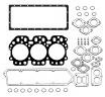
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P198636170

3) **Crankshaft**
- P115256950 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020



1) **O/H Gasket Set**
- PU5LC0018

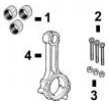
2) **Cyl Head Gsk**
- P111147501

3) **Seal Rocker Box**
- P120996140

4) **Seal, Cyl HD Cov**
- P111996410

5) **Timing Cover Gsk**
- P165996630

6) **Oil Pan Gasket**
- P110996910



1) **Bush, Con Rod**
- P198517265 x3

2) **Bolt, Con Rod**
- P115176140 x6

3) **Nut, Con Rod**
- P020109120 x6

4) **Con Rod**
- P115026251

1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x3

3) **Seal, Exh Valve**
- P120406050 x3

Valve Train Kit
- PVTK309

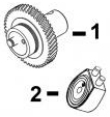
1) **Valve, Intake**
- P120166350 x3

2) **Valve, Exhaust**
- P120176360 x3

3) **Spring, Valve**
- P198216700 x6

4) **Retainer, Valve Spring**
- P120186080 x6

5) **Lock, Valve**
- P120226070 x12



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490

Water Pump
- PU45010062

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111011050UF

1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- PW85720580 1

(1): Check for proper application.

(2): Not compatible with engines that have a crank driven balancer unit.

Engine Series:
400

Engine Model:
404C-22 (HP,HPC,HPG)

Engine Desc:
NATURALLY ASPIRATED

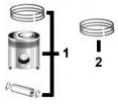
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 135 in3 / 2.216 Lt
Compression Ratio: 23.3:1

Please see page **507** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK404 Std.
- POK405 0.50

2) **Basic Engine Kit**
- PBK404 Std.
- PBK405 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017491 Std.
- P115017491B 0.50

4 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

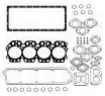
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 3

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



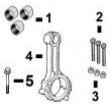
1) **O/H Gasket Set**
- PU5LC0017 1

2) **Cyl Head Gsk**
- P111147741

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920



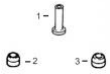
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8

5) **Lock, Valve**
- P120226070 x16

1) **Oil Pump**
- PU5MK8266

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351 2

2) **Thermostat**
- P145206182

3) **Injector**
- P131406490 4

4) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

Repair Sleeve
- 84RS

1) **Glowplug**
- P185366190 2

2) **Oil Pressure Switch**
- P185246280 5

3) **Water Temp Sensor**
- P385720500 5
- PW85720580 5

4) **Cylinder Head**
- P111017930UF 6

Fuel Lines
- 1) P131507700 5
- 2) P131507710 5
- 3) P131507720 5
- 4) P131507730 5

(1): Does not include Crankshaft Oil Seals.

(2): Use with HP Builds.

(3): Do not use in applications that requiere a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the keyway P/N P030509020, must be used.

(4): Use with HP and HPC Builds.

(5): Check for proper application.

(6): Bare head. Check application for proper usage.

Engine Series:
400

Engine Model:
404C-22T (HR, HRC)

Engine Desc:
TURBOCHARGE

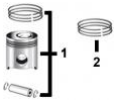
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 135 in3 / 2.216 Lt
Compression Ratio: 23.3:1

Please see page **508** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK406 Std.
- POK407 0.50

2) **Basic Engine Kit**
- PBK406 Std.
- PBK407 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

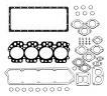
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 3

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



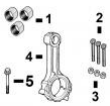
1) **O/H Gasket Set**
- P404TOG 1

2) **Cyl Head Gsk**
- P111147741

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920



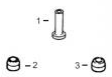
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 5

5) **Lock, Valve**
- P120226070 x16

1) **Oil Pump**
- PU5MK8266

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351 2

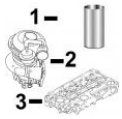
2) **Thermostat**
- P145206182

3) **Atomiser**
- P131406490

4) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- P145017951

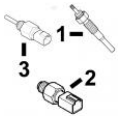
2) **Gasket, W Pump**
- P145996921



1) **Repair Sleeve**
- 84RS

2) **Turbocharger**
- P135756180

3) **Cylinder Head**
- PTPN488UF



1) **Glowplug**
- P185366190 2

2) **Oil Pressure Switch**
- P185246280 4

3) **Water Temp Sensor**
- PW85720580 4

Fuel Lines
- 1) P131507700 4
- 2) P131507710 4
- 3) P131507720 4
- 4) P131507730 4

(1): Does not include Crankshaft Oil Seals.

(2): Use with HR Build.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(4): Check for proper application.

(5): Not included in valve train kit.

Engine Series:
400

Engine Model:
404A-22 (GV)
404D-22 (GN)

Engine Desc:

Engine Data:
NATURALLY ASPIRATED

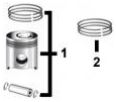
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 134.25 in3 / 2.2 Lt
Compression Ratio: 23.3:1

Please see page **509** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK464 Std.
- POK465 0.50

2) **Basic Engine Kit**
- PBK464 Std.
- PBK465 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017491 Std.
- P115017491B 0.50

4 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

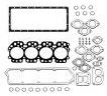
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- P404DTOG 1

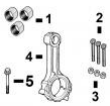
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Timing Cover Gasket**
- P165996630 6
- P165996600 6
- P165996590 6

6) **Oil Pan Gasket**
- P110996920



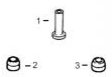
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intake Valve**
- P120406070 x4

3) **Seal, Exhaust Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

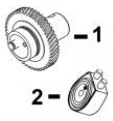
1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 5

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351 4

2) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490 3

4) **Pre-Fuel Filter Assy**
- P130306380

Water Pump
- PU45010062

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111011030UF

1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- P385720500 4
- PW85720580 4

Fuel Lines
- 1) P131507700 4
- 2) P131507710 4
- 3) P131507720 4
- 4) P131507730 4

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Use with GN Build, 404D-22 Engine.

(4): Check for proper application.

(5): Not included in valve train kit.

(6): Included in P404DTOG.

Engine Series:
400

Engine Model:
404D-22T (GP)

Engine Desc:
TURBOCHARGE

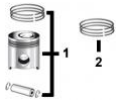
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3 / 2.2 Lt
Compression Ratio: 23.3:1

Please see page **510** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK466 Std.
- POK467 0.50

2) **Basic Engine Kit**
- PBK466 Std.
- PBK467 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

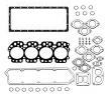
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- P404DTOG 1

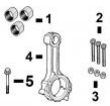
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Timing Cover Gasket**
- P165996630 5
- P165996600 5
- P165996590 5

6) **Oil Pan Gasket**
- P110996920



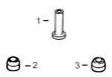
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

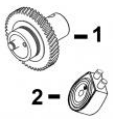
1) **Valve, Intake**
- P120166350

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 4

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351 3

2) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490

4) **Pre-Fuel Filter Assy**
- P130306380

Water Pump
- PU45010062

Repair Sleeve
- 84RS

1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- P385720500 3
- PW85720580 3

3) **Cylinder Head**
- P111011090UF

Turbocharger
- P135756180 3

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Check for proper application.

(4): Not included in valve train kit.

(5): Included in P404DTOG.

PERKINS 404D-22TA (GR)

Engine Series:
400

Engine Model:
404D-22TA (GR)

Engine Desc:
TURBOCHARGE AFTERCOOLED

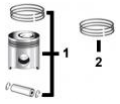
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3 / 2.2 Lt
Compression Ratio: 23.3:1

Please see page **511** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK468 Std.
- POK469 0.50

2) **Basic Engine Kit**
- PBK468 Std.
- PBK469 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

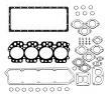
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- P404DTOG 1

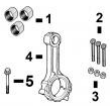
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Timing Cover Gsk**
- P165996630 5
- P165996600 5
- P165996590 5

6) **Oil Pan Gasket**
- P110996920



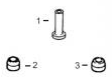
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

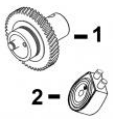
1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 4

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351 3

2) **Thermostat**
- P145206230

3) **Pre-Fuel Filter Assy**
- P130306380

Water Pump
- PU45010062

Repair Sleeve
- 84RS

1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- PW85720580 3

3) **Cylinder Head**
- P111011090UF

Fuel Lines
- 1) P131507700 3
- 2) P131507710 3
- 3) P131507720 3
- 4) P131507730 3

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Check for proper application.

(4): Not included in valve train kit.

(5): Included in P404DTOG.

Engine Series:
400

Engine Model:
404F-22 (EN)

Engine Desc:
Naturally Aspirated

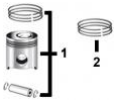
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84mm Stroke: 3.9 in / 100mm Displacement: in3 / 2.2 Lt Compression Ratio: 23.3:1

Please see page **512** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK520 Std.
- POK521 0.50

2) **Basic Engine Kit**
- PBK520 Std.
- PBK521 0.50
- SPEC SHEET - 404F



1) **Piston & Ring Kit**
- P115017790 Std.
- P115017790B 0.50

4 Per Engine

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

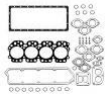
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020



1) **O/H Gasket Set**
- P404DTOG 1

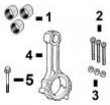
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Timing Cover Gasket**
- P165996630 5
- P165996600 5
- P165996590 5

6) **Oil Pan Gasket**
- P110996920

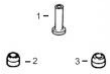


1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 4

5) **Lock, Valve**
- P120226070 x16

1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
-

2) **Thermostat**
- P145206230

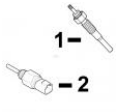
3) **Atomiser**
- P131406490 3

4) **Pre-Fuel Filter Assy**
- P130306380

Water Pump
- PU45010062

1) **Repair Sleeve**
- 84RS

2) **Head Bolts**
- P111136480 x14
- P111136490 x4



1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- PW85720580 3

(1): Crankshaft oil seals and after-treatment component (EGR) gaskets are not included in the gasket set

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(3): Check application for proper usage.

(4): Under development, not included in Valve Train Kit.

(5): Included in P404DTOG.

Engine Series:
400

Engine Model:
404F-22T (EP)

Engine Desc:
Turbocharged

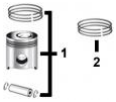
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3in / 84mm Stroke: 3.9in / 100mm Displacement: in3 / 2.2 Lt Compression Ratio: 23.5:1

Please see page **513** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK522 Std.
- POK523 0.50

2) **Basic Engine Kit**
- PBK522 Std.
- PBK523 0.50
- SPEC SHEET - 404F



1) **Piston & Ring Kit**
- P115017800 Std.
- P115017800B 0.50

4 Per Engine

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

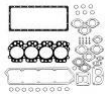
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020



1) **O/H Gasket Set**
- P404DTOG 1

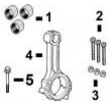
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Timing Cover Gasket**
- P165996630 5
- P165996600 5
- P165996590 5

6) **Oil Pan Gasket**
- P110996920

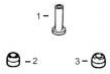


1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) **Valve, Intake**
- P120166350 x4

2) **Valve, Exhaust**
- P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 4

5) **Lock, Valve**
- P120226070 x16

1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
-

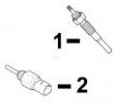
1) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490 3

4) **Pre-Fuel Filter Assy**
- P130306380

Water Pump
- PU45010062

Repair Sleeve
- 84RS



1) **Glowplug**
- P185366190

2) **Water Temp Sensor**
- PW85720580 3

(1): Crankshaft oil seals and after-treatment component (EGR) gaskets are not included in the gasket set

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(3): Check application for proper usage.

(4): Under development, not included in Valve Train Kit.

(5): Included in P404DTOG.

PERKINS 404F-E22T/TA (EQ, ER)

Engine Series:
400

Engine Model:
404F-E22T/TA (EQ, ER)

Engine Desc:
Turbocharged, Common Rail Injection

Engine Data:
Tier 4

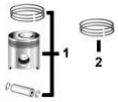
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3in / 84mm Stroke: 3.9in / 100mm Displacemement:1 in3 / 2.2 Lt Common Rail Injection

Build List

EQ71371
EQ71391
EQ83170
EQ83182
EQ83271
EQ83269
EQ83372
EQ83463
ER71390
ER83171
ER83173
ER83253
ER83270
ER83281
ER83340
ER83357
ER83423
ER83443
ER83462

1) **Basic Engine Kit**
- PBK550 Std.
- 2) PBK551 0.50



1) **Piston & Ring Kit**
- P115017810 Std.
- P115017810B 0.50

4 Per Engine

2) **Ring Set**
- P115104130 Std
- P115104130B .50mm

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

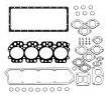
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 (2)

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- PU15376160 126T



1) **O/H Gasket Set**
- P404FTOG (1)

2) **Cyl Head Gasket**
- P111147771

3) **Oil Pan Gasket**
- P110996920

4) **Timing Cover Gasket**
- P165996760 (4)
- P165996780 (5)

5) **Head Cover Seal**
- PU11996520

6) **Rocker Box Seal**
- PU20996250

7) **Exhaust Manifold Gasket**
- PU35997200

8) **Intake Spacer Plate Gasket**
- PU35997170

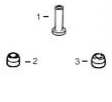
9) **Intake Manifold Gasket**
- PU35997180

1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330



1) **Tappet**
- P120116160

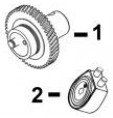
2) **Valve Seal**
- P120406070 x8

1) **Valve, Intake**
2) **Valve, Exhaust**

3) **Spring, Valve**
- P198217470 x8

4) **Retainer, Valve Spring**
- P120186080 x8

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Water Pump**
- PU45010062

2) **Gasket, Water Pump**
- P145996921

3) **Thermostat**
- P145206230

Repair Sleeve
- 84RS

1) **Turbocharger**
- P135756252 (3)

(1): Does not include crankshaft seals

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(3): Check application for proper usage.

(4): For covers with no auxiliary drive

(5): For covers with 2 bolt auxiliary drive

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
700	704-30 (UA)	Naturally Aspirated Direct Injection	4 Cyl	Bore: 97.00 mm Stroke: 100.00 mm

Please see page **514** for a complete list of equipment models.

Basic Engine Kit
- PBK527 Std.
- PBK528 0.50
- SPEC SHEET - 700 SERIES

Piston & Ring Kit
- PU5LL0046 Std.
- PU5LL0046B 0.50

4 Per Engine
Piston Ring Set
- P4181A101 Std
- P4181A102 .50

Main Bearing Set
- PU5MB0015 Std.
- PU5MB0015A 0.25
- PU5MB0015B 0.50
- PU5MB0015C 0.75

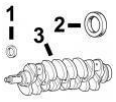
Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0012 Std.
- PU5ME0012A 0.25
- PU5ME0012B 0.50
- PU5ME0012C 0.75

Set of 4 Pairs

Thrust Washer
- P3112T001

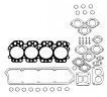
Set of 2 Pcs



1) **Front Seal**
- P2418F546

2) **Rear Seal**
- P2418F547

3) **Crankshaft**
- PZZ90197 [1]

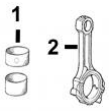


1) **Head Gasket Set**
- PU5LT0342

2) **Lower Gasket Set**
- PU5LB0369

3) **Head Gasket**
- P3681E029

4) **Oil Pan Gasket**
- P3684N023



1) **Bush, Con Rod**
- P3112E025 x4

2) **Connecting Rod**
- PZZ90208 [2]

3) **Rod Capscrew**
- P3275A004 [2]

1) **Tappet**
- P3142U022 x8

2) **Push Rod**
- P3142V004 x8

Valve Train

1) **Valve, Intake**
- P3142H011 x4

2) **Valve, Exhaust**
- P3142A101 x4

3) **Guide, Valve**
- P3318A702 x8

4) **Spring, Valve**
- P3174P408 x8

5) **Lock, Valve**
- P3142W003 x16

6) **Seal, Valve**
- P2418M508 x8

1) **Oil Pump**
- P4132F065

2) **Oil Cooler**
- P2486A218

3) **Fuel Transfer Pump**
- PULPK0031

1) **Water Pump**
- PU5MW0173 [1]

2) **Thermostat**
- P2485C047

1) **Glowplug**
- P2666A014 x4

2) **Fuel Stop Solenoid**
- P2848A279 [1]

(1): Check your build for proper usage.

(2): Fractured style rod cap

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
700	704-30T (UC)	Turbocharged Direct Injection	4 Cyl	Bore: 97.00 mm Stroke: 100.00 mm

Build List

UC50769
UC81203
UC81214
UC81238
UC81310
UC81326
UC81359
UC50732
UC70484
UC81204
UC81227
UC81267
UC81322
UC81342

Basic Engine Kit
- PBK529 Std.
- PBK530 0.50
- SPEC SHEET - 700 SERIES

Piston & Ring Kit
- PU5LL0034 Std.
- PU5LL0034B 0.50

4 Per Engine
Piston Ring Set
- P4181A101 Std
- P4181A102 .50

Main Bearing Set
- PU5MB0015 Std.
- PU5MB0015A 0.25
- PU5MB0015B 0.50
- PU5MB0015C 0.75

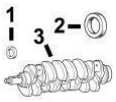
Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0012 Std.
- PU5ME0012A 0.25
- PU5ME0012B 0.50
- PU5ME0012C 0.75

Set of 4 Pairs

Thrust Washer
- P3112T001

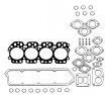
Set of 2 Pcs



1) **Front Seal**
- P2418F546

2) **Rear Seal**
- P2418F547

3) **Crankshaft**
- ZZ90197 1

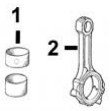


1) **Head Gasket Set**
- PU5LT0343

2) **Lower Gasket Set**
- PU5LB0369

3) **Head Gasket**
- P3681E029

4) **Oil Pan Gasket**
- P3684N023



1) **Bush, Con Rod**
- P3112E025 x4

2) **Connecting Rod**
- PZZ90208 2

1) **Tappet**
- P3142U022 x8

2) **Push Rod**
- P3142V004 x8

Valve Train

1) **Valve, Intake**
- P3142H011 x4

2) **Valve, Exhaust**
- P3142A101 x4

3) **Guide, Valve**
- P3318A702 x8

4) **Spring, Valve**
- P3174P408 x8

5) **Lock, Valve**
- P3142W003 x16

6) **Seal, Valve**
- P2418M508 x8

1) **Oil Pump**
- P4132F065

2) **Oil Cooler**
- P2486A218

3) **Fuel Transfer Pump**
- PULPK0031

1) **Water Pump**
- PU5MW0175 1

2) **Thermostat**
- P2485613

1) **Glowplug**
- P2666A014 x4

2) **Turbocharger**
- P2674A177

3) **Fuel Stop Solenoid**
- P2848A279 1

(1): Check your build for proper usage.

(2): Fractured style rod cap

PERKINS 804C-33 (UE), 804D-33 (UK) ENGINE, NATURALLY ASPIRATED

Engine Series:
800

Engine Model:
804C-33 (UE) 804D-33 (UK)

Engine Data:
NATURALLY ASPIRATED
INDIRECT INJECTION

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.7 in / 94.00 mm
Stroke: 4.72 in / 120.00 mm Piston Compression Height: 2.165 in / 55 mm

Compressors
UK35219 UK35220
UK82294

Industrial
UE35138 UE35139
UE35140 UE35141
UE35243 UE35247

Telehandlers
UK35221 UK35264
UK35242 UK71055
UK71147

Genie-Boom Lifts
S80X S80
S85 Z80/60

Basic Engine Kit
- PBK851 Std.
- PBK852 0.50
- Spec Sheet - 800C/D Series

Piston & Ring Kit
- PMPPK0001 Std.
- PMPPK0001B

4 Per Engine

Main Bearing Set
- PMPMB0001 Std.
- PMPMB0001A
- PMPMB0001B
- PMPMB0001C

Set of 5 Pairs

Con Rod Bearing Set
- PMPBE0002 Std.
- PMPBE0002A
- PMPBE0002B
- PMPBE0002C

Set of 4 Pairs

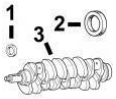
Thrust Washer
- PMPTW0001 Std.

Set of 3 Pcs

Piston Kit:

1) 1 x PMP10275 Piston Kit Std, 1 x PMPRK0001 Ring Set Std.

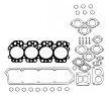
2) 1 x PMP10277 Piston Kit 0.50 mm, 1 x PMPRK0001B Ring Set 0.50 mm.



1) **Front Seal**
- PMP10072

2) **Rear Seal**
- PMP10085

3) **Crankshaft**
- PMP10529 1

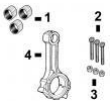


1) **O/H Gasket Set**
- P804OG 3

2) **Cyl Head Gasket**
- PMP10550

3) **Valve Cover Gasket**
- PMP10037

4) **Oil Pan Gasket**
- P21826051 2
- P804OPG 2



1) **Bush, Con Rod**
- PMP10279 x4

2) **Bolt, Con Rod**
- PMP10100 x8

3) **Nut, Con Rod**
- PMP10099 x8

4) **Con Rod Kit**
- PMP10278

1) **Tappet**
- PMP10044 x8

2) **Push Rod**
- PMP10043 x8

Valve Train

1) **Valve, Intake**
- PMP10426 x4

2) **Valve, Exhaust**
- PMP10423 x4

3) **Guide, Valve**
- PMP10526 x8

4) **Spring, Valve**
- PMP10029 x8

5) **Lock, Valve**
- PMP10032 x16

6) **Seal, Valve**
- PMP10030 x8

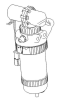
1) **Oil Pump**
- PMP20040

2) **Oil Cooler**
- PMP10311

1) **Water Pump**
- PMP10187 1
- PMP10552 1

2) **Thermostat**
- PMP10198

Glowplug
- PMP10574 x4



Fuel Pump
- PMP10325 1

(1): Check your build for proper usage.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

PERKINS 804C-33T (UF) ENGINE, TURBOCHARGED

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
800	804C-33T (UF)	TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Please see page **515** for a complete list of equipment models.

Basic Engine Kit
- PBK854 Std.
- PBK855 0.50
- Spec Sheet - 800C/D Series

Piston & Ring Kit
- PMPPK0002 Std.
- PMPPK0002B

4 Per Engine

Main Bearing Set
- PMPMB0001 Std.
- PMPMB0001A
- PMPMB0001B
- PMPMB0001C

Set of 5 Pairs

Con Rod Bearing Set
- PMPBE0002 Std.
- PMPBE0002A
- PMPBE0002B
- PMPBE0002C

Set of 4 Pairs

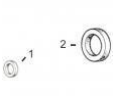
Thrust Washer
- PMPTW0001 Std.

Set of 3 Pcs

Piston Kit:

1) 1 x PMP10095 Piston Std, 1 x PMPRK0001 Ring Set Std.

2) 1 x PMP10251 Piston 0.50 mm, 1 x PMPRK0001B Ring Set 0.50 mm.



1) Front Seal
- PMP10072

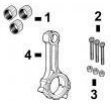
2) Rear Seal
- PMP10085

1) O/H Gasket Set
- P804TOG 3

2) Cyl Head Gasket
- PMP10575 1

3) Valve Cover Gasket
- PMP10037

4) Oil Pan Gasket
- P21826051 2
- P804OPG 2



1) Bush, Con Rod
- PMP10279 x4

2) Bolt, Con Rod
- PMP10100 x8

3) Nut, Con Rod
- PMP10099 x8

4) Con Rod Kit
- PMP10278

1) Tappet
- PMP10044 x8

2) Push Rod
- PMP10043 x8

Valve Train

1) Valve, Intake
- PMP10426 x4

2) Valve, Exhaust
- PMP10423 x4

3) Guide, Valve
- PMP10526 x8

4) Spring, Valve
- PMP10029 x8

5) Lock, Valve
- PMP10032 x16

6) Seal, Valve
- PMP10030 x8

1) Oil Pump
- PMP20040

2) Oil Cooler
- PMP10164

1) Water Pump
- PMP10187 1
- PMP10552 1

2) Thermostat
- PMP10198

Glowplug
- PMP10238 x4

Fuel Lines
- 1) PMP10218
- 2) PMP10219
- 3) PMP10220
- 4) PMP10353

Fuel Pump
- PMP10325 1

(1): Check application for proper use.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
800	804D-33T (UL)	TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Please see page **516** for a complete list of equipment models.

Basic Engine Kit
- PBK857 Std.
- PBK858 0.50
- Spec Sheet - 800C/D Series

Piston & Ring Kit
- PMPPK0003 Std.
- PMPPK0003B

4 Per Engine

Main Bearing Set
- PMPMB0001 Std.
- PMPMB0001A
- PMPMB0001B
- PMPMB0001C

Set of 5 Pairs

Con Rod Bearing Set
- PMPBE0002 Std.
- PMPBE0002A
- PMPBE0002B
- PMPBE0002C

Set of 4 Pairs

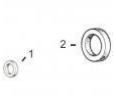
Thrust Washer
- PMPTW0001 Std.

Set of 3 Pcs

Piston Kit:

1) 1 x PMP20015 Piston Std, 1 x PMPRK0002 Ring Set Std.

2) 1 x PMP20017 Piston 0.50 mm, 1 x PMPRK0002B Ring Set 0.50 mm.



1) Front Seal
- PMP10072

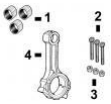
2) Rear Seal
- PMP10085

1) O/H Gasket Set
- P804TOG 3

2) Cyl Head Gasket
- PMP10575 1

3) Valve Cover Gasket
- PMP10037

4) Oil Pan Gasket
- P21826051 2
- P804OPG 2



1) Bush, Con Rod
- PMP10279 x4

2) Bolt, Con Rod
- PMP10100 x8

3) Nut, Con Rod
- PMP10099 x8

4) Con Rod Kit
- PMP10278

1) Tappet
- PMP10044 x8

2) Push Rod
- PMP10043 x8

Valve Train

1) Valve, Intake
- PMP10426 x4

2) Valve, Exhaust
- PMP10423 x4

3) Guide, Valve
- PMP10526 x8

4) Spring, Valve
- PMP10029 x8

5) Lock, Valve
- PMP10032 x16

6) Seal, Valve
- PMP10030 x8

1) Oil Pump
- PMP20040

2) Oil Cooler
- PMP10164

1) Water Pump
- PMP10187 1
- PMP10552 1

2) Thermostat
- PMP10198

Glowplug
- PMP10238 x4

Fuel Lines
- 1) PMP10218
- 2) PMP10219
- 3) PMP10220
- 4) PMP10353

Fuel Pump
- PMP10325 1

(1): Check application for proper use.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

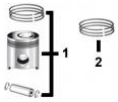
(3): Crankshaft seals not included in gasket set. Order separately.

PERKINS 804D-33T (UL) ENGINE, TURBOCHARGED PISTON MPPK2001

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
800	804D-33T (UL)	TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Build List	Skid Steer		Wheel Loaders	
UL70854	UL35238 UL70854	UL71102	UL35226 UL35227 UL71309	UL35228 UL35265

Basic Engine Kit
- PBK860 Std.
- PBK861 0.50
- Spec Sheet - 800C/D Series



Piston & Ring Kit
- PMPPK2001 Std.
- PMPPK2001B 0.50

4 Per Engine

Main Bearing Set
- PMPMB0001 Std.
- PMPMB0001A
- PMPMB0001B
- PMPMB0001C

Set of 5 Pairs

Con Rod Bearing Set
- PMPBE0002 Std.
- PMPBE0002A
- PMPBE0002B
- PMPBE0002C

Set of 4 Pairs

Thrust Washer
- PMPTW0001 Std.

Set of 3 Pcs

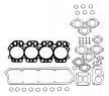
Piston Kit:

1) 1 x PMP20012 Piston Std, 1 x PMPRK0002 Ring Set Std.

2) 1 x PMP20014 Piston 0.50 mm, 1 x PMPRK0002B Ring Set 0.50 mm.

1) **Front Seal**
- PMP10072

2) **Rear Seal**
- PMP10085

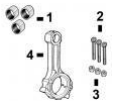


1) **O/H Gasket Set**
- P804TOG 3

2) **Cyl Head Gasket**
- PMP10575 1

3) **Valve Cover Gasket**
- PMP10037

4) **Oil Pan Gasket**
- P21826051 2
- P804OPG 2



1) **Bush, Con Rod**
- PMP10279 x4

2) **Bolt, Con Rod**
- PMP10100 x8

3) **Nut, Con Rod**
- PMP10099 x8

4) **Con Rod Kit**
- PMP10278

1) **Tappet**
- PMP10044 x8

2) **Push Rod**
- PMP10043 x8

Valve Train

1) **Valve, Intake**
- PMP10426 x4

2) **Valve, Exhaust**
- PMP10423 x4

3) **Guide, Valve**
- PMP10526 x8

4) **Spring, Valve**
- PMP10029 x8

5) **Lock, Valve**
- PMP10032 x16

6) **Seal, Valve**
- PMP10030 x8

1) **Oil Pump**
- PMP20040

2) **Oil Cooler**
- PMP10164

1) **Water Pump**
- PMP10187 1
- PMP10552 1

2) **Thermostat**
- PMP10198

Glowplug
- PMP10238 x4

Fuel Lines
- 1) PMP10218
- 2) PMP10219
- 3) PMP10220
- 4) PMP10353

Fuel Pump
- PMP10325 1

(1): Check application for proper use.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

Engine Series:
1000

Engine Model:
1004.40 (AA)

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **517** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK470

2) **Basic Engine Kit**
- PBK470
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK142

Consist of:
- a) PMXF0015
- b) P4181A019
- c) P3135X042 [1]

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

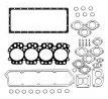
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [3]
- P2418F701 [4]

3) **Crankshaft Kit**
- PZZ90202

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0178

2) **Bottom Gasket**
- PU5LB0151

3) **Valve Cover Gsk**
- P3681A021 [6]
- P3681A032 [6]

4) **Head Gasket**
- P3681E025

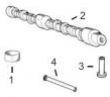
5) **Oil Pan Set**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415361

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Camshaft Gear**
- P31171353

Valve Train Kit
- PVTK415

1) **Valve, Intake**
- P3142L051 x4

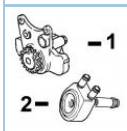
2) **Valve, Exhaust**
- P3142A051 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x8
- 4b) P31745122 x8

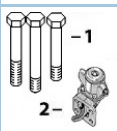
5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



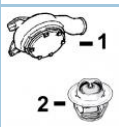
1) **Oil Pump**
- P4132F051

2) **Oil Cooler**
- P2486A218 [6]
- P2486A222 [5]
- P2486A241 [6]
- P2486A991 [6]



1) **Cylinder Head Bolt**
- P32166219 x8
- P32166221 x12
- P32166222 x2

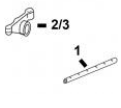
2) **Lift Pump**
- P2641A067



1) **Water Pump**
- P4131E012 [6]
- PU5MW0159 [6]

2) **Thermostat**
- P2485613

3) **Water Pump Gasket**
- P3687Y016



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Piston Cooling Nozzle**
- P3861A027

1) **Cylinder Head**
- PZZ80221 [6]
- PZZ80218UF [5]

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [6]

(1): Flanged, Semi Finished Liner available, P3135X041

(2): Use Single Spring, Valve P3174P405 for low speed applications (Not included in Kit).

(3): To ESN U176356H.

(4): From ESN U176357H.

(5): Applies to AA50608 Only.

(6): Check application for proper usage

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
1000	1004.40 (AA)	NATURALLY ASPIRATED	Lip Seal	4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **518** for a complete list of equipment models.

1) Engine O/H Kit
- POK478

2) Basic Engine Kit
- PBK478
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK1562

Consist of:
- a) PMXF0015
- b) P4181A019
- c) P3135X062 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

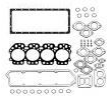
Set of 2 Pairs

1) Front Seal
- P2418F436

2) Rear Seal
- P2418F475 3
- P2418F701 4

3) Crankshaft Kit
- PZZ90202

4) Ring Gear
- P0410236 115T
- P31162121 126T



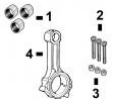
1) Top Gasket Set
- PU5LT0178

2) Bottom Gasket
- PU5LB0151

3) Valve Cover Gsk
- P3681A021 5
- P3681A032 5

4) Head Gasket
- P3681E025

5) Oil Pan Set
- PU5MK0600



1) Bush, Con Rod
- P31134123 x4

2) Bolt, Con Rod
- P32762144 x8

3) Nut, Con Rod
- P33221328 x8

4) Con Rod
- PZZ90009

1) Bushing, Cam
- P31134132 x1

2) Camshaft
- P31415361

3) Tappet
- P31434163

4) Pushrod
- P31434307

1) Camshaft Gear
- P31171353

Valve Train Kit
- PVTK415

1) Valve, Intake
- P3142L051 x4

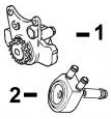
2) Valve, Exhaust
- P3142A051 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744133 x8
- 4b) P31745122 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



1) Oil Pump
- P4132F051

2) Oil Cooler
- P2486A218 5
- P2486A222 5
- P2486A241 5
- P2486A991 5

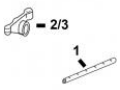
1) Cylinder Head Bolt
- P32166219 x8
- P32166221 x12
- P32166222 x2

2) Lift Pump
- P2641A067

1) Water Pump
- P4131E012 5
- PU5MW0159 5

2) Thermostat
- P2485613

3) Water Pump Gasket
- P3687Y016



1) Rocker Shaft
- PZZ90032

2) Rocker Arm LH
- P41151483

3) Rocker Arm RH
- P41151484

1) Cylinder Head
- PZZ80221 5
- PZZ80218UF 5

2) Heater Plug
- P2666108

(Bayonet Fitting)

3) Oil Pressure Switch
- P2848062 5

(1): Flanged, Semi Finished Liner available, P3135X063

(2): Use Single Spring, Valve P3174P405 for low speed applications (Not included in Kit).

(3): To ESN U176356H.

(4): From ESN U176357H.

(5): Check application for proper usage

PERKINS 1004.40T TO ESN U608300W (1992)

Engine Series:
1000

Engine Model:
1004.40T (AB), (AH)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal To ESN u608300W (1992)

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Jcb
3CX Backhoe - (AB50609)
3CX Backhoe - (AB50279)
415 Loader - (AB50253)

Tovel
TL20-22-25 - Telehandler
TL6-44-36 - Telehandler

Bobcat
963 - Skid Steer

1) **Engine O/H Kit**
- POK471

2) **Basic Engine Kit**
- PBK471
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK275

Consist of:
- a) PMXF0014
- b) P4181A026
- c) P3135X042 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

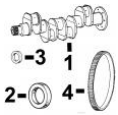
Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0006 Std.
- PU5ME0006A 0.010
- PU5ME0006B 0.020
- PU5ME0006C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

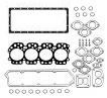


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90212

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0178

2) **Bottom Gasket**
- PU5LB0152

3) **Valve Cover Gsk**
- P3681A021 3
- P3681A032 3

4) **Head Gasket**
- P3681E025

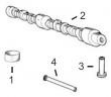
5) **Oil Pan Set**
- PU5MK0600

1) **Bush, Con Rod**
- P31134131 x4 6

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90058 4 3
- PZZ90013 3



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415361

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK416

1) **Valve, Intake**
- P3142L071 x4

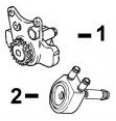
2) **Valve, Exhaust**
- P3142A051 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x8
- 4b) P31745122 x8

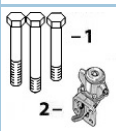
5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



1) **Oil Pump**
- P4132F041 8
- P4132F056

2) **Oil Cooler**
- P2486A218 3
- P2486A219 3
- P2486A222 5
- P2486A241 7
- P2486A991 3



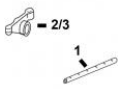
1) **Cylinder Head Bolt**
- P32166219 x8
- P32166221 x12
- P32166222 x2

2) **Lift Pump**
- P2641A067

1) **Water Pump**
- P4131E012 3
- PU5MW0159 7
- PU5MW0195 3

2) **Thermostat**
- P2485613

3) **Turbocharger**
- P2674A301 3
- P2674A153 3



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Piston Cooling Nozzle**
- P3861A027

1) **Cylinder Head**
- PZZ80221 3

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 3

(1): Flanged, Semi Finished Liner available, P3135X041

(2): Use single spring, valve 3174P405 for low speed applications (Not available from Maxiforce).

(3): Check application for proper usage.

(4): Fracture Split Type.

(5): Applies to AB50609 Only.

(6): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(7): Use for AB builds only. check your application for proper use.

(8): Engines with Balancer Unit.

Engine Series:
1000

Engine Model:
1004.40T (AB, AH)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal
From ESN U608301W (1992)

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **519** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK472

2) **Basic Engine Kit**
- PBK472
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK275

Consist of:
- a) PMXF0014
- b) P4181A026
- c) P3135X042 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0006 Std.
- PU5ME0006A 0.010
- PU5ME0006B 0.020
- PU5ME0006C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

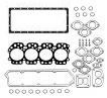
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 4
- P2418F701 5

3) **Crankshaft Kit**
- PZZ90212

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



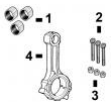
1) **Top Gasket Set**
- PU5LT0178

2) **Bottom Gasket**
- PU5LB0152

3) **Valve Cover Gsk**
- P3681A021 3
- P3681A032 3

4) **Head Gasket**
- P3681E025

5) **Oil Pan Set**
- PU5MK0600

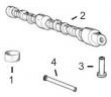


1) **Bush, Con Rod**
- P31134131 x4 7

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90013 3



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415361

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK417

1) **Valve, Intake**
- P3142L072 x4

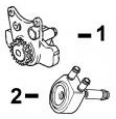
2) **Valve, Exhaust**
- 2) P3142A051 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x8
- 4b) P31745122 x8

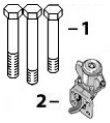
5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



1) **Oil Pump**
- P4132F041 9
- P4132F056

2) **Oil Cooler**
- P2486A218 3
- P2486A219 3
- P2486A222 6
- P2486A241 8
- P2486A991 3



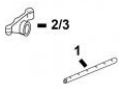
1) **Cylinder Head Bolt**
- P32166219 x8
- P32166221 x12
- P32166222 x2

2) **Lift Pump**
- P2641A067

1) **Water Pump**
- P4131E012 3
- PU5MW0159 8
- PU5MW0195 3

2) **Thermostat**
- P2485613

3) **Turbocharger**
- P2674A301 3
- P2674A153 3



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Cylinder Head**
- PZZ80221 3

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 3

(1): Flanged, Semi Finished Liner available, P3135X041

(2): Use single spring, valve 3174P405 for low speed applications (Not available from Maxiforce).

(3): Check application for proper usage

(4): To ESN U176356H.

(5): From ESN U176357H.

(6): Applies to AB50609 Only.

(7): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(8): Use for AB builds only. check your application for proper use.

(9): Engines with Balancer Unit.

Engine Series: 1000
Engine Model: 1004.40T (AB)
Engine Desc: GRADE "L"
Engine Data: TURBOCHARGED/ INTERCOOLED Lip Seal
Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm Stroke: 5.00 in / 127.00 mm Piston height: 2.767 in / 70.161 mm

Tovel
TL20-22-25 - Telehandler
TL6-44-36 - Telehandler

Bobcat
963 - Skid Steer

1) **Engine O/H Kit**
- POK496

2) **Basic Engine Kit**
- PBK496
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK624

Consist of:
- a) PU5LF0024
- b) P4181A026
- c) P3135X062 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

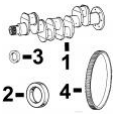
Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0006 Std.
- PU5ME0006A 0.010
- PU5ME0006B 0.020
- PU5ME0006C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

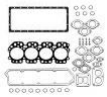


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90212

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



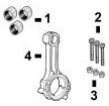
1) **Top Gasket Set**
- PU5LT0178

2) **Bottom Gasket**
- PU5LB0152

3) **Valve Cover Gsk**
- P3681A021 3
- P3681A032 3

4) **Head Gasket**
- P3681E025

5) **Oil Pan Set**
- PU5MK0600

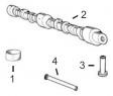


1) **Bush, Con Rod**
- P3112E005 x4 2

2) **Bolt, Con Rod**
- P32186142 x8

3) **Nut, Con Rod**
- P3246A001 x8

4) **Con Rod**
- PZZ90146



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415361

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK417

1) **Valve, Intake**
- P3142L072 x4

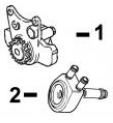
2) **Valve, Exhaust**
- P3142A051 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x8
- 4b) P31745122 x8

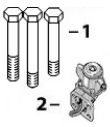
5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



1) **Oil Pump**
- P4132F056

2) **Oil Cooler**
- P2486A218 3
- P2486A219 3
- P2486A222 3
- P2486A241 4
- P2486A991 3



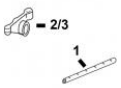
1) **Cylinder Head Bolt**
- P32166219 x8
- P32166221 x12
- P32166222 x2

2) **Lift Pump**
- P2641A067

1) **Water Pump**
- P4131E012 3
- PU5MW0159 4

2) **Thermostat**
- P2485613

3) **Turbocharger**
- P2674A153 3



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Piston Cooling Nozzle**
- P3861A027

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 3

(1): Flanged, Semi Finished Liner available, P3135X063
(2): Use with Con Rod PZZ90146
(3): Check application for proper usage
(4): Use for AB builds only. check your application for proper use.

Engine Series:
1000

Engine Model:
1004.40/40T (AJ, AK, AM, AP, AQ)

Engine Data:
TURBOCHARGE or NATURALLY ASPIRATED
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **520** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK473/45
- POK473/30

2) **Basic Engine Kit**
- PBK473
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK5762

Consist of:
- a) PU5LP0057
- b) P4181A033
- c) P3135X062 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0006 Std.
- PU5ME0006A 0.010
- PU5ME0006B 0.020
- PU5ME0006C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

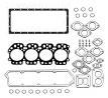
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 3
- P2418F701 4

3) **Crankshaft Kit**
- PZZ90212 5

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0202

2) **Bottom Gasket**
- PU5LB1171 6

3) **Valve Cover Gsk**
- P3681A049

4) **Head Gasket**
- P3681E025

5) **Gasket, Manifold**
- P3688C042

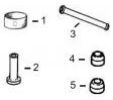
1) **Bush, Con Rod**
- P3112E011 x4

2) **Bolt, Con Rod**
- P32186142 x8 8
- P32762144 x8 8

3) **Nut, Con Rod**
- P33221328 x8 8

4) **Dowel, Con Rod**
- P3246A001 x8 8

5) **Connecting Rod**
- PZZ90146 10 8



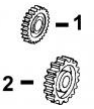
1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x4

5) **Seal, Intk Valve**
- P2418M506 x4



1) **Camshaft Gear**
- P3117L023

Valve Train Kit
- a) 45 b) 30
- a) PVTK423
- b) PVTK424

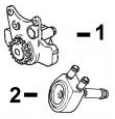
1) Valve, Intake
- a) 45 b) 30 x4
- 1a) P3142D041 x4
- 1b) P3142L081 x4

2) Valve, Exhaust
- 2a) P3142D031 x4
- 2b) P3142D051 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3313A012 x4
- 3b) P3318A705 x4

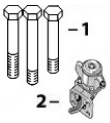
4) Spring, Valve
- P3174P409 x8

5) Lock, Valve
- P3142W004 x16



1) **Oil Pump**
- P4132F056
- P4132F041 2

2) **Oil Cooler**
- P2486A218 7
- P2486A219 8
- P2486A222 8
- P2486A241 9
- P2486A991 8



1) **Cylinder Head Bolt**
- P32166219 x8
- P32166221 x12
- P32166222 x2

2) **Lift Pump**
- P2641A067

1) **Water Pump**
- PU5MW0192 8
- PU5MW0195 8

2) **Water Pump Gasket**
- P3687Y016

3) **Thermostat**
- P2485C034 8
- P2485C036 8

4) **Thermostat Assembly**
- P4133L032 8
- P4133L036 8

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 8

3) **Temp Sensor**
- P2848A121 8

4) **Water Temp Sensor**
- P2848A123 8

1) **Piston Cooling Nozzle**
- P3861A027

2) **Turbocharger**
- P2674A371 8
- P2674A382 8
- P2674A391 8
- P2674A373 8

(1): Flanged, Semi Finished Liner available, P3135X063

(2): Use in engines with Balancer Units.

(3): To ESN U176356H.

(4): From ESN U176357H.

(5): To ESN U284277J.

(6): May use Bottom Gasket Set PU5LB1310

(7): Used on builds AK and AP Only.

(8): Check application for proper usage.

(9): Use for AJ, AK, and AM builds only. check your application for proper use.

(10): Takes P32186142 x 8 and P3246A001 x 8.

PERKINS 1004.40/40T FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1004.40/40T (AJ, AK, AM, AP, AQ)

Engine Data:
TURBOCHARGE or NATURALLY ASPIRATED
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Jcb
Backhoe - (AK50628)
Shovel Loader - (AK50610)

Tovel
TL20-22-25 - Telehandler
TL6-44-36 - Telehandler

Bobcat
963 - Skid Steer

Massey Ferguson
Tractor - (AK31299)

Manitou
MRT1432M - Telescopic Handler

1) **Engine O/H Kit**
- POK497/45
- POK497/30

2) **Basic Engine Kit**
- PBK497
- SPEC SHEET - 1004.40

Piston-Liner Kit
- PCK5762

Consist of:
- a) PU5LP0057
- b) P4181A033
- c) P3135X062 [1]

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std.
- PU5ME0013A 0.010
- PU5ME0013B 0.020
- PU5ME0013C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

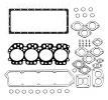
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [3]
- P2418F701 [4]

3) **Crankshaft Kit**
- PZZ90226 [5]

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



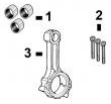
1) **Top Gasket Set**
- PU5LT0202

2) **Bottom Gasket**
- PU5LB1171 [6]

3) **Valve Cover Gsk**
- P3681A049

4) **Head Gasket**
- P3681E025

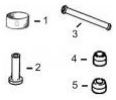
5) **Gasket, Manifold**
- P3688C042



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod**
- P4115C314 [9]



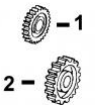
1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x4

5) **Seal, Intk Valve**
- P2418M506 x4



1) **Camshaft Gear**
- P3117L023

Valve Train Kit
- a) 45 b) 30
- a) PVTK423
- b) PVTK424

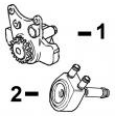
1) Valve, Intake
- a) 45 b) 30 x4
- 1a) P3142D041 x4
- 1b) P3142L081 x4

2) Valve, Exhaust
- 2a) P3142D031 x4
- 2b) P3142D051 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3313A012 x4
- 3b) P3318A705 x4

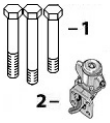
4) Spring, Valve
- P3174P409 x8

5) Lock, Valve
- P3142W004 x16



1) **Oil Pump**
- P4132F056
- P4132F041 [2]

2) **Oil Cooler**
- P2486A218 [7]
- P2486A219 [8]
- P2486A222 [8]
- P2486A241 [10]
- P2486A991 [8]



1) **Cylinder Head Bolt**
- P32166219 x8
- P32166221 x12
- P32166222 x2

2) **Lift Pump**
- P2641A067

1) **Water Pump**
- PU5MW0192 [8]
- PU5MW0195 [8]

2) **Water Pump Gasket**
- P3687Y016

3) **Thermostat**
- P2485C034 [8]
- P2485C036 [8]

4) **Thermostat Assembly**
- P4133L032 [8]
- P4133L036 [8]

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [8]

3) **Temp Sensor**
- P2848A121 [8]

4) **Water Temp Sensor**
- P2848A123 [8]

1) **Piston Cooling Nozzle**
- P3861A027

2) **Turbocharger**
- P2674A371 [8]
- P2674A382 [8]
- P2674A391 [8]
- P2674A373 [8]

(1): Flanged, Semi Finished Liner available, P3135X063

(2): Use in engines with Balancer Units.

(3): To ESN U176356H.

(4): From ESN U176357H.

(5): PZZ90226 From ESN U284278J.

(6): May use Bottom Gasket Set PU5LB1310

(7): Used on builds AK and AP Only.

(8): Check application for proper usage.

(9): Grade J, Color Coded Green.

(10): Use for AJ, AK, and AM builds only. check your application for proper use.

Engine Series:
1000

Engine Model:
1004.42 (AR, AS)

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Lip Seal Sleeveless Engines

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.055 in / 103.00 mm

Hyster
S80-155XL - (AR70414)
H80-155XL - (AR70417)
H80-155XM - (AR70417)
S80-155XM - (AR70414)

Tovel
TS6-44
TS8-44

Jcb
JCB - (AR50690)

Bobcat
1800 - Scat Trak-low emission (AR70419)

Case IH
C70 - Tractor

Massey Ferguson
3340
4233

1) **Engine O/H Kit**
- POK474 Std.
- POK475 0.50
- POK476 1.00

2) **Basic Engine Kit**
- PBK474 Std.
- PBK475 0.50
- PBK476 1.00
- SPEC SHEET - 1004.42

a) **Piston**
- PU5LP0058 Std.
- PU5LP0058B 0.50
- PU5LP0058D 1.00

4 Per Engine

b) **Ring Set**
- P4181A045 Std.
- P4181A046 0.50
- P4181A047 1.00

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

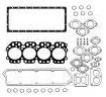
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [1]
- P2418F701 [2]

3) **Crankshaft Kit**
- PZZ90202 [3]

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



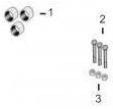
1) **Top Gasket Set**
- PU5LT0317

2) **Bottom Gasket**
- PU5LB1171 [4]

3) **Valve Cover Gsk**
- P3681A049

4) **Head Gasket**
- P3681E042

5) **Gasket, Manifold**
- P3688C042



1) **Bush, Con Rod**
- P3112E011 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x4

5) **Seal, Intk Valve**
- P2418M506 x4

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P3117L023

Valve Train Kit
- PVTK422

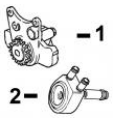
1) **Valve, Intake**
- P3142H041 x4

2) **Valve, Exhaust**
- P3142D061 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3313A012 x4
- 3b) P3318A705 x4

4) **Spring, Valve**
- P3174P412 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F051 [7]
- P4132F041 [8]

2) **Oil Cooler**
- P2486A218 [5]
- P2486A219 [5]
- P2486A222 [5]
- P2486A241 [6]
- P2486A991 [5]

1) **Lift Pump**
- P2641A067

2) **Piston Cooling Nozzle**
- P3861A027

3) **Cylinder Head Bolt**
- P32166221 x4

1) **Water Pump**
- PU5MW0192 [5]
- PU5MW0195 [5]

2) **Thermostat**
- P2485C036

3) **Water Pump Gasket**
- P3687Y016

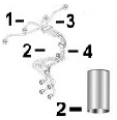
1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [5]

3) **Temp Sensor**
- P2848A121 [5]

4) **Water Temp Sensor**
- P2848A123 [5]



1) **Fuel Lines**
- 1) P3525A101
- 2) P3525A102
- 3) P3525A103
- 4) P3525A104

2) **Repair Sleeve**
- 103RS

(1): To ESN U176356H.
(2): From ESN U176357H.
(3): PZZ90202 To ESN U284277J.
(4): May use Bottom Gasket Set PU5LB1310.
(5): Check application for proper usage.
(6): Use for AR builds only. check your application for proper use.
(7): Use on engines without a Balancer Unit.
(8): Use on engines with a Balancer Unit.

PERKINS 1004.42 FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1004.42 (AR, AS)

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Lip Seal Sleeveless Engines

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.055 in / 103.00 mm

Tovel
TS6-44
TS8-44

Hyster
S80-155XL/XM - (AR70414)
h80-155XL/XM - (AR70417)

Jcb
(AR50690)

Bobcat
1800 - Scat Trak-low emission (AR70419)

Landini
GLOBUS 75 - Tractor

1) **Engine O/H Kit**
- POK524 Std.
- POK525 0.50
- POK526 1.00

2) **Basic Engine Kit**
- PBK524 Std.
- PBK525 0.50
- PBK526 1.00
- SPEC SHEET - 1004.42

a) **Piston**
- PU5LP0058 Std.
- PU5LP0058B 0.50
- PU5LP0058D 1.00

4 Per Engine

b) **Ring Set**
- P4181A045 Std.
- P4181A046 0.50
- P4181A047 1.00

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std.
- PU5ME0013A 0.010
- PU5ME0013B 0.020
- PU5ME0013C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

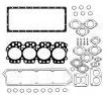
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 1
- P2418F701 2

3) **Crankshaft Kit**
- PZZ90226 3

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



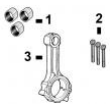
1) **Top Gasket Set**
- PU5LT0317

2) **Bottom Gasket**
- PU5LB1171 4

3) **Valve Cover Gsk**
- P3681A049

4) **Head Gasket**
- P3681E042

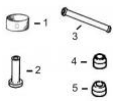
5) **Gasket, Manifold**
- P3688C042



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod**
- P4115C314



1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x4

5) **Seal, Intk Valve**
- P2418M506 x4

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P3117L023

Valve Train Kit
- PVTK422

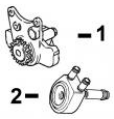
1) **Valve, Intake**
- P3142H041 x4

2) **Valve, Exhaust**
- P3142D061 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3313A012 x4
- 3b) P3318A705 x4

4) **Spring, Valve**
- P3174P412 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F051 7

2) **Oil Cooler**
- P2486A218 5
- P2486A219 5
- P2486A222 5
- P2486A241 6
- P2486A991 5

1) **Repair Sleeve**
- 103RS

2) **Lift Pump**
- P2641A067

1) **Water Pump**
- PU5MW0192
- PU5MW0195 5

2) **Thermostat**
- P2485C036

3) **Water Pump Gasket**
- P3687Y016

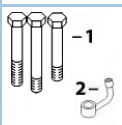
1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 5

3) **Temp Sensor**
- P2848A121 5

4) **Water Temp Sensor**
- P2848A123 5



1) **Cylinder Head Bolt**
- P32166221 x4

2) **Piston Cooling Nozzle**
- P3861A027

(1): To ESN U176356H.
(2): From ESN U176357H.
(3): PZZ90226 From ESN U284278J.
(4): May use Bottom Gasket Set PU5LB1310.
(5): Check application for proper usage.
(6): Use for AR builds only. check your application for proper use.
(7): Use on engines without a Balancer Unit.

Engine Series:
1000

Engine Model:
1006.60 (YA)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Hyster-Forklifts
H165-280 - (YA70217)
H165-360XL - (YA70337)

Jcb
(YA50214) - Wheel Loader
(YA50339) - Industrial

Massey Ferguson
396 - (YA31257)
399 - (YA31240)
3095
4260
5320

CLAAS
Dominator 58 - Combine
Dominator 68 - Combine
Dominator 78 - Combine

1) **Engine O/H Kit**
- POK690

2) **Basic Engine Kit**
- PBK690
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK142

Consist of:
- a) PMXF0015
- b) P4181A019
- c) P3135X042 [1]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

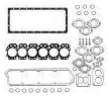
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [3]
- P2418F701 [4]

3) **Crankshaft Kit**
- PZZ90087

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C061

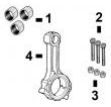


1) **Top Gasket Set**
- PU5LT1179

2) **Bottom Gasket**
- PU5LB0153

3) **Head Gasket**
- P3681H205

4) **Valve Cover Gasket**
- P3681C001 [6]
- P3681C003 [5]

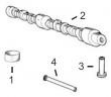


1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31416307

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK612

1) **Valve, Intake**
- P3142L051 x6

2) **Valve, Exhaust**
- P3142A051 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

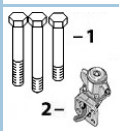
4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x12
- 4b) P31745122 x12

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

1) **Oil Pump**
- P4132F043

2) **Oil Cooler Donut**
- P2486A219 [5]
- P2486A241 [5]



1) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

2) **Lift Pump**
- P2641729

1) **Water Pump**
- PU5MW0092
- PU5MW0159 [5]

2) **Thermostat**
- P2485613 x2

3) **Water Pump Gasket**
- P3687Y016

1) **Rocker Arm LH**
- P41151483

2) **Rocker Arm RH**
- P41151484

3) **Cylinder Head**
- PZZ80299 [5]
- PZZ80225UF [5]

4) **Piston Cooling Nozzle**
- P3861A027

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [5]

3) **Temp Sensor**
- P2848A121 [5]

(1): Flanged, Semi Finished Liner available, P3135X041

(2): Use Single Valve Spring, 3174P405 for low speed applications, not available from Maxiforce.

(3): To ESN U764751H.

(4): From ESN U764752H.

(5): Check build list for proper application.

(6): Included in Top Gasket Set PU5LT1179

PERKINS 1006.60T TO ESN 557976X

Engine Series:
1000

Engine Model:
1006.60T (YB)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal
To ESN 557976X

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Build List
YD35099

Massey Ferguson
3625 - (YB31245)
3645
3655
399
6190
640
660
680

Perkins
(YB30127) - Power Units
(YB30650) - Power Units

Dingxin-Gensets
DP88S
DP120S
DP132S

Jcb
435 - Front Loader(YB50292)

Tovel
TS18-44

CLAAS
Dominator 88 - Combine
Dominator 98 - Combine

1) **Engine O/H Kit**
- POK691

2) **Basic Engine Kit**
- PBK691
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK275

Consist of:
- a) PMXF0014
- b) P4181A026
- c) P3135X042 3

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

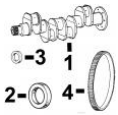
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs



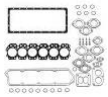
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90085

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C061

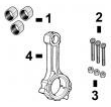


1) **Top Gasket Set**
- PU5LT1179

2) **Bottom Gasket**
- PU5LB0153

3) **Head Gasket**
- P3681H205

4) **Valve Cover Gasket**
- P3681C001 7
- P3681C003 5

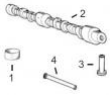


1) **Bush, Con Rod**
- P31134131 x6 6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90013 1



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31416307

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK613

1) Valve, Intake
- P3142L071 x6 2

2) Valve, Exhaust
- P3142A051 x6

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744133 x12
- 4b) P31745122 x12

5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12

1) **Oil Pump**
- P4132F057

2) **Oil Cooler**
- P2486A992 4
- P2486A993 5

1) **Lift Pump**
- P2641729

2) **Turbocharger**
- P2674A080 5

3) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

1) **Water Pump**
- PU5MW0092
- PU5MW0159 5

2) **Water Pump Gasket**
- P3687Y016

3) **Turbocharger**
- P2674A110 5

4) **Thermostat**
- P2485613 x2

1) **Rocker Arm LH**
- P41151483

2) **Rocker Arm RH**
- P41151484

3) **Cylinder Head**
- PZZ80299 5

4) **Piston Cooling Nozzle**
- P3861A027

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 5

3) **Temp Sensor**
- P2848A121 5

4) **Water Temp Sensor**
- P2848A123 5

(1): Check with Build List.

(2): 45 Degree Angle.

(3): Flanged, Semi Finished Liner available, P3135X041

(4): Applies to YB31245 Only.

(5): Check build list for proper application.

(6): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(7): Included in Top Gasket Set PU5LT1179

PERKINS 1006.60T FROM ESN 557977X

Engine Series:
1000

Engine Model:
1006.60T (YB)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal
From ESN 557977X

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **521** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK692

2) **Basic Engine Kit**
- PBK692
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK275

Consist of:
- a) PMXF0014
- b) P4181A026
- c) P3135X042 [3]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

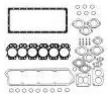
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [4]
- P2418F701 [5]

3) **Crankshaft Kit**
- PZZ90085

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C061



1) **Top Gasket Set**
- PU5LT1179

2) **Bottom Gasket**
- PU5LB0153

3) **Head Gasket**
- P3681H205

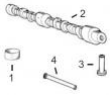
4) **Valve Cover Gasket**
- P3681C001 [9]
- P3681C003 [7]

1) **Bush, Con Rod**
- P31134131 x6 [8]

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90013 [1]



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31416307

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK614

1) **Valve, Intake**
- P3142L072 x6 [2]

2) **Valve, Exhaust**
- P3142A051 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x12
- 4b) P31745122 x12

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

1) **Oil Pump**
- P4132F057

2) **Oil Cooler**
- P2486A992 [6]
- P2486A993 [7]

1) **Lift Pump**
- P2641729

2) **Turbocharger**
- P2674A080 [7]

3) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

1) **Water Pump**
- PU5MW0092
- PU5MW0159 [7]

2) **Water Pump Gasket**
- P3687Y016

3) **Turbocharger**
- P2674A110 [7]

4) **Thermostat**
- P2485613 x2

1) **Rocker Arm LH**
- P41151483

2) **Rocker Arm RH**
- P41151484

3) **Cylinder Head**
- PZZ80299 [7]

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [7]

3) **Temp Sensor**
- P2848A121 [7]

4) **Water Temp Sensor**
- P2848A123 [7]

(1): Check with Build List.
(2): 30 Degree Angle.
(3): Flanged, Semi Finished Liner available, P3135X041
(4): To ESN U764751H.
(5): From ESN U764752H.
(6): Applies to YB31245 Only.
(7): Check build list for proper application.
(8): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.
(9): Included in Top Gasket Set PU5LT1179

PERKINS 1006.60T GRADE L

Engine Series:
1000

Engine Model:
1006.60T (YE, YD)

Engine Desc:
Grade L

Engine Data:
TURBOCHARGED INTERCOOLED Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm
Stroke: 5.00 in / 127.00 mm
Piston height: 2.762 in / 127.00 mm

Build List
YB50604

Fg Wilson
P96SP1
P150-1
P150E
P150P1
P165-1
P165-2
P165E1
P188E1
XP110E
XP135
XP150E
XP150P1

Tovel
TS18-44

1) **Engine O/H Kit**
- POK696

2) **Basic Engine Kit**
- PBK696
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK624

Consist of:
- a) PU5LF0024
- b) P4181A026
- c) P3135X062 3

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

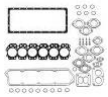
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 4
- P2418F701 5

3) **Crankshaft Kit**
- PZZ90085

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C061

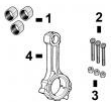


1) **Top Gasket Set**
- PU5LT1179

2) **Bottom Gasket**
- PU5LB0153

3) **Head Gasket**
- P3681H205

4) **Valve Cover Gasket**
- P3681C001 9
- P3681C003 7

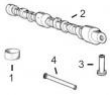


1) **Bush, Con Rod**
- P3112E005 x6 6 1

2) **Bolt, Con Rod**
- P32186142 x12

3) **Nut, Con Rod**
- P3246A001 x12

4) **Con Rod**
- PZZ90146



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31416307

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK614

1) **Valve, Intake**
- P3142L072 x6 2

2) **Valve, Exhaust**
- P3142A051 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

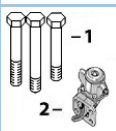
4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744133 x12
- 4b) P31745122 x12

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

1) **Oil Pump**
- P4132F057

2) **Oil Cooler**
- P2486A993 7



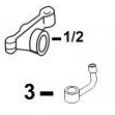
1) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

2) **Lift Pump**
- P2641729

1) **Water Pump**
- PU5MW0092
- PU5MW0159 8

2) **Thermostat**
- P2485613 x2

3) **Turbocharger**
- P2674A335 8



1) **Rocker Arm LH**
- P41151483

2) **Rocker Arm RH**
- P41151484

3) **Piston Cooling Nozzle**
- P3861A027

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 7

3) **Temp Sensor**
- P2848A121 7

4) **Water Temp Sensor**
- P2848A123 7

(1): Use with Con Rod ZZ90146.

(2): 30 Degree Angle.

(3): Flanged, Semi Finished Liner available, P3135X063

(4): To ESN U764751H.

(5): From ESN U764752H.

(6): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(7): Check build number for proper application.

(8): Use on YD builds only. Check build number for proper application.

(9): Included in Top Gasket Set PU5LT1179

PERKINS 1006.60T GRADE L FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1006.60T (YE, YD)

Engine Desc:
Grade L

Engine Data:
TURBOCHARGED INTERCOOLED Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm
Stroke: 5.00 in / 127.00 mm
Piston height: 2.762 in / 127.00 mm

Build List
YB50604

Fg Wilson
XP110E
P96SP1
P150-1
P150E
P150P1
XP135
XP150E
XP150P1
P165-1
P165-2
P165E1
P188E1

Tovel
TS18-44

1) **Engine O/H Kit**
- POK698

2) **Basic Engine Kit**
- PBK698
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK624

Consist of:
- a) PU5LF0024
- b) P4181A026
- c) P3135X062 [3]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0025 Std.
- PU5ME0025A 0.010
- PU5ME0025B 0.020
- PU5ME0025C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

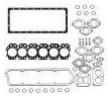
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [4]
- P2418F701 [5]

3) **Crankshaft Kit**
- PZZ90229

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C061

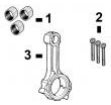


1) **Top Gasket Set**
- PU5LT1179

2) **Bottom Gasket**
- PU5LB0153

3) **Head Gasket**
- P3681H205

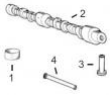
4) **Valve Cover Gasket**
- P3681C001 [9]
- P3681C003 [6]



1) **Bush, Con Rod**
- P3112A005 x6 [7] [1]

2) **Bolt, Con Rod**
- P3212V003 x12

3) **Con Rod**
- P4115C314 [8]



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31416307

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

Valve Train Kit
- PVTK614

1) **Valve, Intake**
- P3142L072 x6 [2]

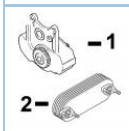
Valve, Exhaust
- P3142A051 x6

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744133 x12
- 4b) P31745122 x12

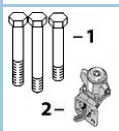
5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12



1) **Oil Pump**
- P4132F057

2) **Oil Cooler**
- P2486A993 [6]



1) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

2) **Lift Pump**
- P2641729

1) **Water Pump**
- PU5MW0092
- PU5MW0159 [6]

2) **Thermostat**
- P2485613 x2

3) **Turbocharger**
- P2674A335 [6]

1) **Rocker Arm LH**
- P41151483

2) **Rocker Arm RH**
- P41151484

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [6]

3) **Temp Sensor**
- P2848A121 [6]

4) **Water Temp Sensor**
- P2848A123 [6]

(1): Use with Con Rod ZZ90146.
(2): 30 Degree Angle.
(3): Flanged, Semi Finished Liner available, P3135X063
(4): To ESN U764751H.
(5): From ESN U764752H.
(6): Check build number for proper application.
(7): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.
(8): Grade J, Color Coded Green.
(9): Included in Top Gasket Set PU5LT1179

Engine Series:
1000

Engine Model:
1006.60T (YG, YH, YJ, YK)

Engine Data:
TURBOCHARGE or NATURALLY ASPIRATED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **522** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK693/45
- POK693/30

2) **Basic Engine Kit**
- PBK693
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK5762

Consist of:
- a) PU5LP0057
- b) P4181A033
- c) P3135X062 1

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std. 5
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

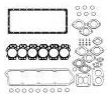
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 2
- P2418F701 3

3) **Crankshaft Kit**
- PZZ90085

4) **Ring Gear**
- P31162121 126T



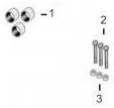
1) **Top Gasket Set**
- PU5LT1300

2) **Bottom Gasket**
- PU5LB1301

3) **Head Gasket**
- P3681H205

4) **Rocker Cover Gasket**
- P3681A051

5) **Gasket, Manifold**
- P3688C042



1) **Bush, Con Rod**
- P3112E011 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x6

5) **Seal, Intk Valve**
- P2418M506 x6

6) **Camshaft**
- P3141F022 4

7) **Cam and Lifter Kit**
- P3141F022KIT 6 4

Valve Train Kit
- a) 45 b) 30
- a) PVTK618
- b) PVTK619

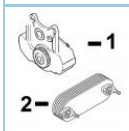
1) Valve, Intake
- a) 45 b) 30
- 1a) P3142D041 x6
- 1b) P3142L081 x6

2) Valve, Exhaust
- 2a) P3142D031 x6
- 2b) P3142D051 x6

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3313A012 x6
- 3b) P3318A705 x6

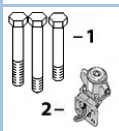
4) Spring, Valve
- P3174P409 x12

5) Lock, Valve
- P3142W004 x24



1) **Oil Pump**
- P4132F057

2) **Oil Cooler**
- P2486A992 4
- P2486A993 4



1) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

2) **Lift Pump**
- P2641729

1) **Water Pump**
- PU5MW0192
- PU5MW0156

3) **Water Pump Gasket**
- P3687Y016

1) **Oil Pressure Switch**
- P2848062 4

2) **Temp Sensor**
- P2848A121 4

1) **Thermostat**
- P2485C034 4
- P2485C036 4

2) **Thermostat Assembly**
- P4133L032 4
- P4133L036 4

3) **Piston Cooling Nozzle**
- P3861A027

4) **Turbocharger**
- P2674A091 4

(1): Flanged, Semi Finished Liner available, P3135X063

(2): To ESN U764751H.

(3): From ESN U764752H.

(4): Check build number for proper application.

(5): Use for YG, and YH builds only. check your application for proper use.

(6): Contains P3141F022 x 1 and P31434163 x 12.

PERKINS 1006.60T YG, YH, YK, YJ BUILDS FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1006.60T (YG, YH, YJ, YK)

Engine Data:
TURBOCHARGED or NATURALLY ASPIRATED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Hyster

H165-360XL - (YG70403)
H165-360XL - (YH70393)

Mc Cormick-Tractors

MTX110 - (YH50918)
MTX125 - (YH50919)
MTX140 - (YH50920)
MTX155 - (YK50921)
MTX170 - (YJ51192)

Tovel

TS18-44

Massey Ferguson

6180 - (YH31310)

1) **Engine O/H Kit**
- POK600/45
- POK600/30

2) **Basic Engine Kit**
- PBK600
- SPEC SHEET - 1006.60

Piston-Liner Kit
- PCK5762

Consist of:
- a) PU5LP0057
- b) P4181A033
- c) P3135X062 [1]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0025 Std.
- PU5ME0025A 0.010
- PU5ME0025B 0.020
- PU5ME0025C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475 [2]
- P2418F701 [3]

3) **Crankshaft Kit**
- PZZ90229

4) **Ring Gear**
- P31162121 126T

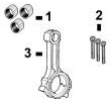
1) **Top Gasket Set**
- PU5LT1300

2) **Bottom Gasket**
- PU5LB1301

3) **Head Gasket**
- P3681H205

4) **Rocker Cover Gasket**
- P3681A051

5) **Gasket, Manifold**
- P3688C042



1) **Bush, Con Rod**
- P3112A005 x6

2) **Bolt, Con Rod**
- P3212V003 x12

3) **Con Rod**
- P4115C314 [5]

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x6

5) **Seal, Intk Valve**
- P2418M506 x6

6) **Camshaft**
- P3141F022 [4]

7) **Cam and Lifter Kit**
- P3141F022KIT [7] [4]

Valve Train Kit
- a) 45 b) 30
- a) PVTK618
- b) PVTK619

1) **Valve, Intake**
- a) 45 b) 30
- 1a) P3142D041 x6
- 1b) P3142L081 x6

2) **Valve, Exhaust**
- 2a) P3142D031 x6
- 2b) P3142D051 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3313A012 x6
- 3b) P3318A705 x6

4) **Spring, Valve**
- P3174P409 x12

5) **Lock, Valve**
- P3142W004 x24

1) **Oil Pump**
- P4132F057

2) **Oil Cooler**
- P2486A992 [4]
- P2486A993 [4]

3) **Oil Cooler Donut**
- P2486A241 [6]

1) **Cylinder Head Bolt**
- P32166219 x12
- P32166221 x18
- P32166222 x2

2) **Lift Pump**
- P2641729

1) **Water Pump**
- PU5MW0192
- PU5MW0156

3) **Water Pump Gasket**
- P3687Y016

1) **Oil Pressure Switch**
- P2848062 [4]

2) **Temp Sensor**
- P2848A121 [4]

1) **Thermostat**
- P2485C034 [4]
- P2485C036 [4]

2) **Thermostat Assembly**
- P4133L032 [4]
- P4133L036 [4]

3) **Piston Cooling Nozzle**
- P3861A027

4) **Turbocharger**
- P2674A091 [4]

(1): Flanged, Semi Finished Liner available, P3135X063

(2): To ESN U764751H.

(3): From ESN U764752H.

(4): Check build number for proper application.

(5): Grade J, Color Coded Green

(6): Use for YG, and YH builds only. check your application for proper use.

(7): Contains P3141F022 x 1 and P31434163 x 12.

PERKINS 1103C (DC) (DF) (DJ) (XK) BUILDS

Engine Series:
1100

Engine Model:
1103C-33 (DC) / 1103B-33 (DF) / 1103A-33 (DJ) / 1103D - 33 (XK)

Engine Desc:
Tier 2

Engine Data:
NATURALLY ASPIRATED

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3 / 3.3 Lt

Please see page **523** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK320 Std.
- POK321 0.50
- POK322 1.00

2) **Basic Engine Kit**
- PBK320 Std.
- PBK321 0.50
- PBK322 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

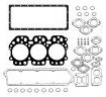
1)	1 x P3135M105	Piston Std,	1 x PUPRK0003	Ring Set Std.
2)	1 x P3135M106	Piston 0.50 mm,	1 x PUPRK0003B	Ring Set 0.50 mm.
3)	1 x P3135M107	Piston 1.00 mm,	1 x PUPRK0003D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0379

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK307

1) **Valve, Intake**
- P3142H071 x3

2) **Valve, Exhaust**
- P3142A151 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A016 x6

5) **Lock, Valve**
- P3142W004 x12

Oil Pump
- P4132F071 3 1
- P413F072 3 1

1) **Lift Pump**
- P2641A203 3
- PULPK0040 3

2) **Injector**
- P2645K016 3

3) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0197

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

1) **Glowplug**
- P2666A016 x3

2) **Oil Pressure Switch**
- 2a) P2848A071 3
- 2b) P2848062 3

3) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3
- P2848A129 3

(1): Not to be used on engines with balancer units.
(2): Grade J, Color Coded Green.
(3): Check application for proper usage.
(4): Do Not Used with Build DF.

Engine Series:
1100

Engine Model:
1103C - 33 (DC) / 1103D - 33 (XK)

Engine Desc:
Tier 2

Engine Data:
NATURALLY ASPIRATED

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3 / 3.3 Lt

Please see page **524** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK331 Std.
- POK332 0.50
- POK333 1.00

2) **Basic Engine Kit**
- PBK331 Std.
- PBK332 0.50
- PBK333 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

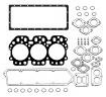
1)	1 x P3135M105	Piston Std,	1 x PUPRK0003	Ring Set Std.
2)	1 x P3135M106	Piston 0.50 mm,	1 x PUPRK0003B	Ring Set 0.50 mm.
3)	1 x P3135M107	Piston 1.00 mm,	1 x PUPRK0003D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0380

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK307

1) **Valve, Intake**
- P3142H071 x3

2) **Valve, Exhaust**
- P3142A151 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A016 x6

5) **Lock, Valve**
- P3142W004 x12

Oil Pump
- P4132F071 3 1
- P4132F072 3 1

1) **Lift Pump**
- P2641A203 3
- PULPK0040 3

2) **Injector**
- P2645K016 3

3) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0197

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

1) **Glow Plug**
- P2666A016 x3

2) **Oil Pressure Switch**
- 2a) P2848A071 3
- 2b) P2848062 3

3) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3
- P2848A129 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

PERKINS 1103C (DD) (DE) (DG) (DK) BUILDS

Engine Series:
1100

Engine Model:
1103C - 33T (DD) / 1103C - 33TA (DE) / 1103B - 33T (DG) / 1103A - 33T (DK)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3 / 3.3 Lt

Kz-Power
KZP-G50
KZP-G66

Massey Ferguson
420 - (DD38078)
430 - (DD38311)
3425S - (DD37992)
3425F - (DD37992)
3425GE - (DD37992)
3425GEV - (DD37992)

Godlike
GDP45*S - Genset
GDP60*S - Genset

1) **Engine O/H Kit**
- POK325 Std.
- POK326 0.50
- POK327 1.00

2) **Basic Engine Kit**
- PBK325 Std.
- PBK326 0.50
- PBK327 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

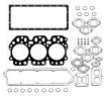
3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0379

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK307

1) **Valve, Intake**
- P3142H071 x3

2) **Valve, Exhaust**
- P3142A151 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A016 x6

5) **Lock, Valve**
- P3142W004 x12

Oil Pump
- P4132F071 3 1
- P4132F072 3 1

Lift Pump
- P2641A203 3
- PULPK0040 3

1) **Water Pump**
- PU5MW0197

2) **Water Pump Gasket**
- P3682A011

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

1) **Glow Plug**
- P2666A016 x3

2) **Oil Pressure Switch**
- P2848062 4

3) **Water Temp Sensor**
- P2848A123 4
- P2848A126 4
- P2848A129 4

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

(4): Check for proper application.

PERKINS 1103C-33T (DD)

Engine Series:
1100

Engine Model:
1103C - 33T (DD)

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 2

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3 / 3.3 Lt

Godlike
GDP45*S - Genset

1) **Engine O/H Kit**
- POK334 Std.
- POK335 0.50
- POK336 1.00

2) **Basic Engine Kit**
- PBK334 Std.
- PBK335 0.50
- PBK336 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

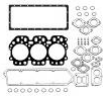
3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0380

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK307

1) **Valve, Intake**
- P3142H071 x3

2) **Valve, Exhaust**
- P3142A151 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A016 x6

5) **Lock, Valve**
- P3142W004 x12

Oil Pump
- P4132F071 3 1
- P4132F072 3 1

1) **Lift Pump**
- P2641A203 3
- PULPK0040 3

2) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0197

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

1) **Glow Plug**
- P2666A016 x3

2) **Oil Pressure Switch**
- P2848062 3

3) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3
- P2848A129 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

PERKINS 1103C-33T (DD), 1103A-33 (DK)

Engine Series:
1100

Engine Model:
1103C - 33T (DD) / 1103A - 33T (DK)

Engine Data:
TURBOCHARGED Tier 2

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3/ 3.3 Lt

Please see page **525** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK340 Std.
- POK341 0.50
- POK342 1.00

2) **Basic Engine Kit**
- PBK340 Std.
- PBK341 0.50
- PBK342 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P025 Std.
- P4115P026 0.50
- P4115P027 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

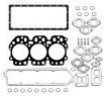
1)	1 x P3135M121	Piston Std,	1 x PUPRK0002	Ring Set Std.
2)	1 x P3135M122	Piston 0.50 mm,	1 x PUPRK0002B	Ring Set 0.50 mm.
3)	1 x P3135M123	Piston 1.00 mm,	1 x PUPRK0002D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0379

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK307

1) **Valve, Intake**
- P3142H071 x3

2) **Valve, Exhaust**
- P3142A151 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A016 x6

5) **Lock, Valve**
- P3142W004 x12

Oil Pump
- P4132F071 3 1
- P4132F072 3 1

1) **Lift Pump**
- P2641A203 3
- PULPK0040 3

2) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0197

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

3) **Turbocharger**
- P2674A423 3
- P2674A421 3

1) **Glow Plug**
- P2666A016 x3

2) **Oil Pressure Switch**
- P2848062 3

3) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3
- P2848A129 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

PERKINS 1103D-33T (XL), 1103D-33TA (XM)

Engine Series:
1100D

Engine Model:
1103D-33T (XL) / 1103D-33TA (XM)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in/ 3.3 Lt

1) **Engine O/H Kit**
- POK343 Std.
- POK344 0.50
- POK345 1.00

2) **Basic Engine Kit**
- PBK343 Std.
- PBK344 0.50
- PBK345 1.00
- SPEC SHEET - 1103D-33T

Piston & Ring Kit
- PU5PR0064 Std.
- PU5PR0064B 0.50
- PU5PR0064D 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

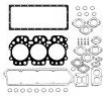
1)	1 x P3135M171	Piston Std,	1 x PUPRK0005	Ring Set Std.
2)	1 x P3135M172	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3)	1 x P3135M173	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0379

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Push Rod**
- P3142V011

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK310

1) **Valve, Intake**
- P3142H111 x3

2) **Valve, Exhaust**
- P3142A171 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A031 x6

5) **Lock, Valve**
- P2714A002 x12

Oil Pump
- P4132F071 3 1
- P4132F072 3 1

Lift Pump
- PULPK0040

1) **Water Pump**
- PU5MW0208

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

1) **Glow Plug**
- P2666A016 x3

2) **Oil Pressure Switch**
- 2a) P2848A071 3
- 2b) P2848062 3

3) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

PERKINS 1103D-33T (XL), 1103D-33TA (XM) 2

Engine Series:
1100D

Engine Model:
1103D-33T (XL) / 1103D-33TA (XM)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in/ 3.3 Lt

1) **Engine O/H Kit**
- POK346 Std.
- POK347 0.50
- POK348 1.00

2) **Basic Engine Kit**
- PBK346 Std.
- PBK347 0.50
- PBK348 1.00
- SPEC SHEET - 1103D-33T

Piston & Ring Kit
- PU5PR0064 Std.
- PU5PR0064B 0.50
- PU5PR0064D 1.00

3 Per Engine

Main Bearing Set
- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

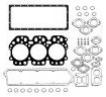
1)	1 x P3135M171	Piston Std,	1 x PUPRK0005	Ring Set Std.
2)	1 x P3135M172	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3)	1 x P3135M173	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- P4181V017

4) **Ring Gear**
- P0410236 115T



1) **Top Gasket Set**
- PU5LT0355

2) **Bottom Gasket**
- PU5LB0380

3) **Head Gasket**
- P3681E049

4) **Valve Cover Gsk**
- P3681A057

5) **Oil Pan Gasket**
- P3681K038

1) **Bush, Con Rod**
- P3112A005 x3

2) **Bolt, Con Rod**
- P3212V003 x6

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Push Rod**
- P3142V011

4) **Seal, Exh Valve**
- P2418M517 x3

5) **Seal, Intk Valve**
- P2418M519 x3

Valve Train Kit
- PVTK310

1) **Valve, Intake**
- P3142H111 x3

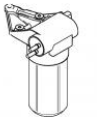
2) **Valve, Exhaust**
- P3142A171 x3

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x6

4) **Spring, Valve**
- P3174A031 x6

5) **Lock, Valve**
- P2714A002 x12

Oil Pump
- P4132F071 3 1
- P4132F072 3 1



Lift Pump
- PULPK0040 3

1) **Water Pump**
- PU5MW0208

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x5
- P3218A012 x3

1) **Glow Plug**
- P2666A016 x3

2) **Oil Pressure Switch**
- 2a) P2848A071 3
- 2b) P2848062 3

3) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

PERKINS 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR)

Engine Series:
1100

Engine Model:
1104C-44 (RE) / 1104C-E44 (RF) / 1104A-44 (RR)

Engine Desc:
Tier 2

Engine Data:
NATURALLY ASPIRATED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Industrial
Backhoe Loader - (RE38238)
Genset - (RE51215)

Gehl

7610 - Skid Steer
7710 - Skid Steer

Noble (Liftking)

RC60 - Forklift
RT50 - Forklift
RT60 - Forklift
RT80 - Forklift

Asv-Posi-Track

RC-85 Comp Track Loader

Hyster

H80-155 TIER 2

Marine-Power-Systems

4.4GM

1) **Engine O/H Kit**
- POK412 Std.
- POK413 0.50
- POK414 1.00

2) **Basic Engine Kit**
- PBK412 Std.
- PBK413 0.50
- PBK414 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.

2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.

3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.

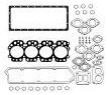
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 8
- PZZ90237 9

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

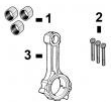
2) **Bottom Gasket**
- PU5LB0382 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046

6) **Oil Pan Gasket**
- P3681K037



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K041

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K041KIT

Valve Train Kit
- PVTK425

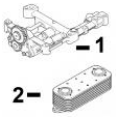
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A215 5 plate 7

1) **Lift Pump**
- P2641A203 7
- PULPK0041 7

2) **Injector**
- P2645K016

3) **Pre-Fuel Filter Assy**
- P130306380

4) **Piston Cooling Nozzle**
- P2113A003

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 7
- P4133L507 7
- P4133L508 7

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4
- P2666A017 x4 6

2) **Oil Pressure Sensor**
- P2874A007 7

3) **Oil Pressure Switch**
- 3a) P2848A071 7
- 3b) P2848062 7

4) **Temp Sensor**
- P2874A018 7

5) **Water Temp Sensor**
- P2848A123 7
- P2848A126 7
- P2848A129 7

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green. To ESN U491476T.

(3): Do Not Used with Build RF.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(5): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(6): RE Build Only.

(7): Check for proper application.

(8): 63.5mm rod journal, splined nose

(9): 68mm rod journal, non-splined nose

PERKINS 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR) 2

Engine Series:
1100

Engine Model:
1104C-44 (RE) / 1104C-E44 (RF) / 1104A-44 (RR)

Engine Data:
NATURALLY ASPIRATED Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3/ 4.4 Lt

(RE38396) - Tractors
(RE38082) - Industrial
(RE38108) - Industrial

Noble (Liftking)
RC60 - Forklift
RT50 - Forklift
RT60 - Forklift
RT80 - Forklift

Gehl
7610 - Skid Steer
7710 - Skid Steer

Asv Posi-Track
RC-85 - Comp Track Loader

Marine-Power-Systems
4.4GM

1) **Engine O/H Kit**
- POK415 Std. 5
- POK416 0.50 5
- POK417 1.00 5

(Rod Brg OD 68 mm)
- POK415S Std. 9
- POK416S 0.50 9
- POK417S 1.00 9

2) **Basic Engine Kit**
- PBK415 Std. 5
- PBK416 0.50 5
- PBK417 1.00 5

(Rod Brg OD 68 mm)
- PBK415S Std. 9
- PBK416S 0.50 9
- PBK417S 1.00 9
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5
- PT410927 Std. 9
- PT420155 0.010 9
- PT420154 0.020 9
- PT420153 0.030 9

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.

2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.

3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.

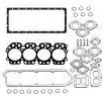
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 7
- PZZ90237 8

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

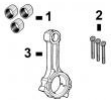
2) **Bottom Gasket**
- PU5LB0384 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P047

6) **Oil Pan Gasket**
- P3681K036



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K041

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K041KIT

Valve Train Kit
- PVTK425

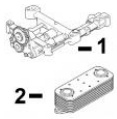
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A215 5 plate 6

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 6

3) **Injector**
- P2645K016 6

4) **Piston Cooling Nozzle**
- P2113A003

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 6
- P4133L507 6
- P4133L508 6

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 6
- P2666A017 x4 6

2) **Oil Pressure Sensor**
- P2874A007 6

3) **Oil Pressure Switch**
- 3a) P2848A071 6
- 3b) P2848062 6

4) **Temp Sensor**
- P2874A018 6

5) **Water Temp Sensor**
- P2848A123 6
- P2848A126 6
- P2848A129 6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RF.

(4): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(5): Use for rods that have a 63.5mm rod journal.

(6): Check for proper application.

(7): 63.5mm rod journal, splined nose

(8): 68mm rod journal, non-splined nose

(9): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44 (RE) / 1104C-E44 (RF) / 1104A-44 (RR)

Engine Data:
NATURALLY ASPIRATED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3/ 4.4 Lt

Please see page **526** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK480 Std. 5
- POK481 0.50 5
- POK482 1.00 5

(Rod Brg OD 68 mm)
- POK480S Std. 10
- POK481S 0.50 10
- POK482S 1.00 10

2) **Basic Engine Kit**

(Rod Brg OD 68 mm)
- PBK480 Std. 5
- PBK481 0.50 5
- PBK482 1.00 5

(Rod Brg OD 68 mm)
- PBK480S Std. 10
- PBK481S 0.50 10
- PBK482S 1.00 10
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5
- PT410927 Std. 10
- PT420155 0.010 10
- PT420154 0.020 10
- PT420153 0.030 10

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.

2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.

3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.

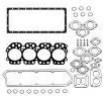
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 8
- PZZ90237 9

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

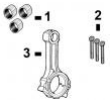
2) **Bottom Gasket**
- PU5LB0383 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046

6) **Oil Pan Gasket**
- P3681K036



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K041

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K041KIT

Valve Train Kit
- PVTK425

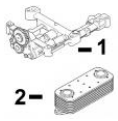
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A215 5 plate 7

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 7

3) **Injector**
- P2645K016 7

4) **Piston Cooling Nozzle**
- P2113A003

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 7
- P4133L507 7
- P4133L508 7

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 7
- P2666A017 x4 7

2) **Oil Pressure Sensor**
- P2874A007 7

3) **Oil Pressure Switch**
- 3a) P2848A071 7
- 3b) P2848062 7

4) **Temp Sensor**
- P2874A018 7

5) **Water Temp Sensor**
- P2848A123 7
- P2848A126 7
- P2848A129 7

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RF.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(5): Use for rods that have a 63.5mm rod journal.

(6): RE Build Only.

(7): Check for proper application.

(8): 63.5mm rod journal, splined nose

(9): 68mm rod journal, non-splined nose

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44 (RE) / 1104C-E44 (RF) / 1104A-44 (RR)

Engine Desc:
Build Number RE38172

Engine Data:
NATURALLY ASPIRATED Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 269 in3 / 4.4 Lt

Gehl Mfg
(RE37911) - Skid Steer Loader
7610 - Skid Steer
7710 - Skid Steer

Hyster-Forklifts
(RE38037)
(RE38038)

Noble (Liftking)
RC60 LoPro - Forklift
RT50 - Forklift
RT60 - Forklift
RT80 - Forklift

Asv-Posi-Track
RC-85 - Comp Track Loader

Marine-Power-Systems
4.4GM

1) **Engine O/H Kit**
- POK483 Std.
- POK484 0.50
- POK485 1.00

2) **Basic Engine Kit**
- PBK483 Std.
- PBK484 0.50
- PBK485 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.

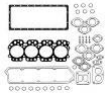
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 8
- PZZ90237 9

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

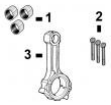
2) **Bottom Gasket**
- PU5LB0381 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P047

6) **Oil Pan Gasket**
- P3681K037



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K041

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K041KIT

Valve Train Kit
- PVTK425

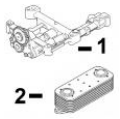
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A215 5 plate 7

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 7

3) **Injector**
- P2645K016 7

4) **Piston Cooling Nozzle**
- P2113A003

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 7
- P4133L507 7
- P4133L508 7

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 7
- P2666A017 x4 7

2) **Oil Pressure Sensor**
- P2874A007 7

3) **Oil Pressure Switch**
- 3a) P2848A071 7
- 3b) P2848062 7

4) **Temp Sensor**
- P2874A018 7

5) **Water Temp Sensor**
- P2848A123 7
- P2848A126 7
- P2848A129 7

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RF.

(4): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(5): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(6): RE Build Only.

(7): Check for proper application.

(8): 63.5mm rod journal, splined nose

(9): 68mm rod journal, non-splined nose

PERKINS 1104C-44T (RG), (RH), (RK), (RS), (RT) BUILDS

Engine Series:
1100

Engine Model:
1104C-44T (RG) / 1104C-E44T (RH) / 1104C-E44TA (RK) / 1104A-44T (RS) / 1104A-44TA (RT)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **527** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK418 Std. 5
- POK419 0.50 5
- POK420 1.00 5

(Rod Brg OD 68 mm)
- POK418S Std. 10
- POK419S 0.50 10
- POK420S 1.00 10

2) **Basic Engine Kit**
- PBK418 Std. 5
- PBK419 0.50 5
- PBK420 1.00 5

(Rod Brg OD 68 mm)
- PBK418S Std. 10
- PBK419S 0.50 10
- PBK420S 1.00 10
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5
- PT410927 Std. 10
- PT420155 0.010 10
- PT420154 0.020 10
- PT420155 0.030 10

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

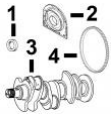
Set of 2 Pairs

Piston Kit:

1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



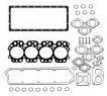
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 7
- PZZ90237 8

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

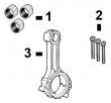
2) **Bottom Gasket**
- PU5LB0382 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046

6) **Oil Pan Gasket**
- P3681K037



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K043

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K043KIT

Valve Train Kit
- PVTK425

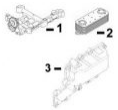
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 9

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 6

3) **Injector**
- P2645K011 6
- P2645K012 6

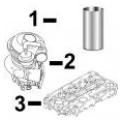
4) **Piston Cooling Nozzle**
- P3861A027

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 6
- P4133L507 6
- P4133L508 6



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 6
- P2674A201 6
- P2674A209 6
- P2674A226 6

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 6
- P2666A017 x4 6

2) **Oil Pressure Sensor**
- P2874A007 6

3) **Oil Pressure Switch**
- 3a) P2848A071 6
- 3b) P2848062 6

4) **Temp Sensor**
- P2874A018 6

5) **Water Temp Sensor**
- P2848A123 6
- P2848A126 6
- P2848A129 6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RH or RK or RT.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(5): Use for rods that have a 63.5mm rod journal.

(6): Check for proper application.

(7): 63.5mm rod journal, splined nose

(8): 68mm rod journal, non-splined nose

(9): Includes 9 plate oil cooler core.

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44T (RG) / 1104C-44TA (RJ) / 1104C-E44TA (RK)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **528** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK421 Std. 5
- POK422 0.50 5
- POK423 1.00 5

(Rod Brg OD 68 mm)
- POK421S Std. 10
- POK422S 0.50 10
- POK423S 1.00 10

2) **Basic Engine Kit**
- PBK421 Std. 5
- PBK422 0.50 5
- PBK423 1.00 5

(Rod Brg OD 68 mm)
- PBK421S Std. 10
- PBK422S 0.50 10
- PBK423S 1.00 10
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5
- PT410927 Std. 10
- PT420155 0.010 10
- PT420154 0.020 10
- PT420153 0.030 10

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

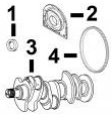
Set of 2 Pairs

Piston Kit:

1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



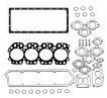
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 7
- PZZ90237 8

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

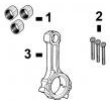
2) **Bottom Gasket**
- PU5LB0384 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P047

6) **Oil Pan Gasket**
- P3681K036



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8

3) **Con Rod Kit**
- P4115C314 2

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K041 6
- P4112K043 6

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K041KIT 6
- P4112K043KIT 6

Valve Train Kit
- PVTK425

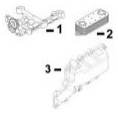
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler Plate**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 9

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 6

3) **Injector**
- P2645K011 6
- P2645K012 6

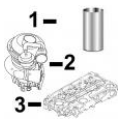
4) **Piston Cooling Nozzle**
- P3861A027

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 6
- P4133L507 6
- P4133L508 6

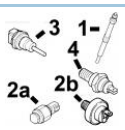


1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 6
- P2674A201 6
- P2674A202 6
- P2674A404 6
- P2674A209 6
- P2674A211 6
- P2674A223 6
- P2674A225 6
- P2674A226 6

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3



1) **Glowplug**
- P2666A016 x4 6
- P2666A017 x4 6

2) **Oil Pressure Switch**
- 2a) P2848A071 6
- 2b) P2848062 6

3) **Temp Sensor**
- P2874A018 6

4) **Water Temp Sensor**
- P2848A123 6
- P2848A126 6
- P2848A129 6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RK.

(4): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(5): Use for rods that have a 63.5mm rod journal.

(6): Check application for proper usage.

(7): 63.5mm rod journal, splined nose

(8): 68mm rod journal, non-splined nose

(9): Includes 9 plate oil cooler core.

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44T (RG) / 1104C-E44T (RH)

Engine Data:
TURBOCHARGED Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 269 in3/ 4.4 Lt

Please see page **529** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK486 Std. 5
- POK487 0.50 5
- POK488 1.00 5

(Rod Brg OD 68 mm)
- POK486S Std. 10
- POK487S 0.50 10
- POK488S 1.00 10

2) **Basic Engine Kit**
- PBK486 Std. 5
- PBK487 0.50 5
- PBK488 1.00 5

(Rod Brg OD 68 mm)
- PBK486S Std. 10
- PBK487S 0.50 10
- PBK488S 1.00 10
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5
- PT410927 Std. 10
- PT420155 0.010 10
- PT420154 0.020 10
- PT420153 0.030 10

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.

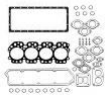
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 7
- PZZ90237 8

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

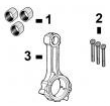
2) **Bottom Gasket**
- PU5LB0383 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046

6) **Oil Pan Gasket**
- P3681K036



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 6
- PT400001 x8 6

3) **Connecting Rod**
- P4115C314 6
- P4115C364 6

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K043

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K043KIT

Valve Train Kit
- PVTK425

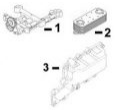
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler Plate**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 9

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 6

3) **Injector**
- P2645K011 6

4) **Piston Cooling Nozzle**
- P2113A003

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 6
- P4133L507 6
- P4133L508 6

1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 6
- P2674A209 6
- P2674A226 6

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 6
- P2666A017 x4 6

2) **Oil Pressure Sensor**
- P2874A007 6

3) **Oil Pressure Switch**
- 3a) P2848A071 6
- 3b) P2848062 6

4) **Temp Sensor**
- P2874A018 6

5) **Water Temp Sensor**
- P2848A123 6
- P2848A126 6
- P2848A129 6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RH.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(5): Use for rods that have a 63.5mm rod journal.

(6): Check for proper application.

(7): 63.5mm rod journal, splined nose.

(8): 68mm rod journal, non-splined nose

(9): Includes 9 plate oil cooler core.

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44T (RG) / 1104C-E44T (RH)

Engine Data:
TURBOCHARGED Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

1) **Engine O/H Kit**
- POK491 Std. 5
- POK492 0.50 5
- POK493 1.00 5

(Rod Brg OD 68 mm)
- POK491S Std. 10
- POK492S 0.50 10
- POK493S 1.00 10

2) **Basic Engine Kit**
- PBK491 Std. 5
- PBK492 0.50 5
- PBK493 1.00 5

(Rod Brg OD 68 mm)
- PBK491S Std. 10
- PBK492S 0.50 10
- PBk493S 1.00 10
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 5
- PU5ME0013A 0.010 5
- PU5ME0013B 0.020 5
- PU5ME0013C 0.030 5
- PT410927 Std. 10
- PT420155 0.010 10
- PT420154 0.020 10
- PT420153 0.030 10

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

OEM
RK38158

Asv Posi-Track
RC-100 - Comp Track Loader
PT-100 - Comp Track Loader

Genmac
GAMMA G100PO*
QUEEN G100PS*

Perkins-Sabre
4.4TGM - (RG30881)

Gehl-Mfg
7810 - Skid Steer

Terex
PT-100G - Comp Track Loader

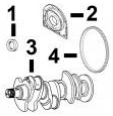
Godlike
GDP60*S - Genset

Piston Kit:

1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



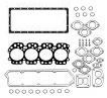
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 7
- PZZ90237 8

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

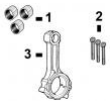
2) **Bottom Gasket**
- PU5LB0381 4

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P047

6) **Oil Pan Gasket**
- P3681K037



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 6
- PT400001 x8 6

3) **Connecting Rod**
- P4115C314 6
- P4115C364 6

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K043

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K043KIT

Valve Train Kit
- PVTK425

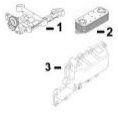
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler Plate**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 9

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 6

3) **Injector**
- P2645K011 6

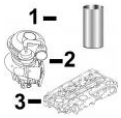
4) **Piston Cooling Nozzle**
- P2113A003

5) **Pre-Fuel Filter Assy**
- P130306380

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 6
- P4133L507 6
- P4133L508 6



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 6
- P2674A209 6
- P2674A226 6

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 6
- P2666A017 x4 6

2) **Oil Pressure Sensor**
- P2874A007 6

3) **Oil Pressure Switch**
- 3a) P2848a071 6
- 3b) p2848062 6

4) **Temp Sensor**
- P2874A018 6

5) **Water Temp Sensor**
- P2848A123 6
- P2848A126 6
- P2848A129 6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Do Not Used with Builds RH.

(4): Bottom gasket contains: P3681P047 Timming Cover Gasket and P3681K037 Oil Pan Gasket.

(5): Use for rods that have a 63.5mm rod journal.

(6): Check for proper application.

(7): 63.5mm rod journal, splined nose

(8): 68mm rod journal, non-splined nose

(9): Includes 9 plate oil cooler core.

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104A-44T (RS)

Engine Data:
TURBOCHARGED Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 269 in3/ 4.4 Lt

Build List
RS60172B - Tractor Wheeled

1) **Engine O/H Kit**
- POK534 Std.
- POK535 0.50
- POK536 1.00

2) **Basic Engine Kit**
- PBK534 Std.
- PBK535 0.50
- PBK536 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- PT426384 Std.
- PT426389 0.50
- PT426388 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.010
- PU5MB0033B 0.020
- PU5MB0033C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PT410927 Std. 2
- PT420155 0.010 2
- PT420154 0.020 2
- PT420153 0.030 2

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

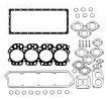
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 4
- PZZ90237 5

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

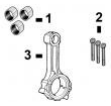
2) **Bottom Gasket**
- PU5LB0383 1

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046

6) **Oil Pan Gasket**
- P3681K036



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 3
- PT400001 x8 3

3) **Connecting Rod**
- P4115C314 3
- P4115C364 3

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- PT424469

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

Valve Train Kit
- PVTK425

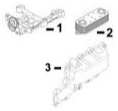
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Balancer Unit Incl. Oil Pump**
- P4111K073

2) **Oil Cooler Plate**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 6

1) **Lift Pump**
- P2641A203 3

2) **Lift Pump**
- PULPK0041 3

3) **Injector**
- P2645K011 3
- P2645K012 3

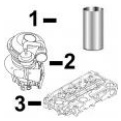
4) **Piston Cooling Nozzle**
- P2113A003

5) **Pre-Fuel Filter**
- P130306380 3

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 3
- P4133L507 3
- P4133L508 3



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 3
- P2674A226 3

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4

2) **Oil Pressure Sensor**
- P2874A007 3

3) **Oil Pressure Switch**
- P2848A071 3
- P2848062 3

4) **Temp Sensor**
- P2848A216 3
- P2874A018 3

5) **Water Temp Sensor**
- P2848A123 3
- P2848A126 3
- P2848A129 3

(1): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K036 Oil Pan Gasket.
(2): Check your connecting rod journal outside diameter for the proper connecting rod bearings.
(3): Check for proper application.
(4): 63.5mm rod journal, splined nose.
(5): 68mm rod journal, non-splined nose
(6): Includes 9 plate oil cooler core.

Engine Series:
1100

Engine Model:
1104A-44T (RS)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **530** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK427 Std.
- POK428 0.50
- POK429 1.00

2) **Basic Engine Kit**
- PBK427 Std.
- PBK428 0.50
- PBK429 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P025 Std.
- P4115P026 0.50
- P4115P027 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 4
- PU5ME0013A 0.010 4
- PU5ME0013B 0.020 4
- PU5ME0013C 0.030 4

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1)	1 x P3135M121	Piston Std,	1 x PUPRK0002	Ring Set Std.
2)	1 x P3135M122	Piston 0.50 mm,	1 x PUPRK0002B	Ring Set 0.50 mm.
3)	1 x P3135M123	Piston 1.00 mm,	1 x PUPRK0002D	Ring Set 1.00 mm.

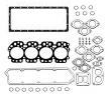
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 5
- PZZ90237 6

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

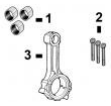
2) **Bottom Gasket**
- PU5LB0382 3

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046

6) **Oil Pan Gasket**
- P3681K037



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 7
- PT400001 x8 7

3) **Connecting Rod**
- P4115C314 7
- P4115C364 7

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K043

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K043KIT

Valve Train Kit
- PVTK425

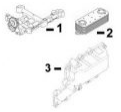
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 8

1) **Lift Pump**
- P2641A203

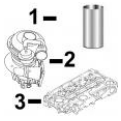
2) **Lift Pump**
- PULPK0041

3) **Injector**
- P2645K011 7
- P2645K012 7

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 7
- P4133L507 7
- P4133L508 7



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 7
- P2674A226 7
- P2674A431 7

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

Glowplug
- P2666A016 x4

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(4): Check your connecting rod journal outside diameter for the proper connecting rod bearings

(5): 63.5mm rod journal, splined nose

(6): 68mm rod journal, non-splined nose

(7): Check application for proper usage

(8): Includes 9 plate oil cooler core.

Engine Series:
1100

Engine Model:
1104A-44T (RS) / 1104A-44TA (RT)

Engine Data:
TURBOCHARGED Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **531** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK424 Std.
- POK425 0.50
- POK426 1.00

2) **Basic Engine Kit**
- PBK424 Std.
- PBK425 0.50
- PBK426 1.00
- SPEC SHEET - 1103; 1104 ABC

Piston & Ring Kit
- P4115P025 Std.
- P4115P026 0.50
- P4115P027 1.00

4 Per Engine

Main Bearing Set
- PU5MB0018 Std.
- PU5MB0018A 0.010
- PU5MB0018B 0.020
- PU5MB0018C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0013 Std. 4
- PU5ME0013A 0.010 4
- PU5ME0013B 0.020 4
- PU5ME0013C 0.030 4

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M121 Piston Std, 1 x PUPRK0002 Ring Set Std.

2) 1 x P3135M122 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.

3) 1 x P3135M123 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.

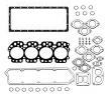
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 5
- PZZ90237 6

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

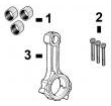
2) **Bottom Gasket**
- PU5LB0381 3

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P047

6) **Oil Pan Gasket**
- P3681K037



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 7
- PT400001 x8 7

3) **Connecting Rod**
- P4115C314 7
- P4115C364 7

1) **Bushing, Cam**
- P3112D071 x1

2) **Camshaft**
- P4112K043

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

5) **Seal, Exh Valve**
- P2418M517 x4

6) **Seal, Intk Valve**
- P2418M519 x4

7) **Cam and Lifter Kit**
- P4112K043KIT

Valve Train Kit
- PVTK425

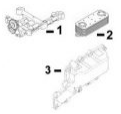
1) **Valve, Intake**
- P3142H071 x4

2) **Valve, Exhaust**
- P3142A151 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A016 x8

5) **Lock, Valve**
- P3142W004 x16



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 8

1) **Lift Pump**
- P2641A203

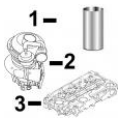
2) **Lift Pump**
- PULPK0041

3) **Injector**
- P2645K011 7
- P2645K012 7

1) **Water Pump**
- PU5MW0206

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 7
- P4133L507 7
- P4133L508 7



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- P2674A200 7
- P2674A226 7
- P2674A431 7

3) **Cylinder Head**
- PZZ80267UF

4) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

Glowplug
- P2666A016 x4

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(4): Check your connecting rod journal outside diameter for the proper connecting rod bearings

(5): 63.5mm rod journal, splined nose

(6): 68mm rod journal, non-splined nose

(7): Check application for proper usage

(8): Includes 9 plate oil cooler core.

Engine Series:
1100D

Engine Model:
1104D-44 (NK)

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3/ 4.4 Lt

Jlg
G5-18A

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- PBK500 [3]
- PBK501 0.50 [3]
- PBK502 1.00 [3]

2) **Basic Kit**
(Rod Brg OD 68 mm)
- PBK500S [3]
- PBK501S 0.50 [3]
- PBK502S 1.00 [3]
- SPEC SHEET - 1104D (NK,NL,NM)

Piston & Ring Kit
- PU5PR0063 Std.
- PU5PR0063B 0.50
- PU5PR0063D 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0034 Std. [4]
- PU5ME0034A 0.25 [4]
- PU5ME0034B 0.50 [4]
- PU5ME0034C 0.75 [4]
- PT410927 Std. [5]
- PT420155 0.25 [5]
- PT420154 0.50 [5]
- PT420153 0.75 [5]

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M165 Piston Std, 1 x PUPRK0003 Ring Set Std.
2) 1 x P3135M166 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
3) 1 x P3135M167 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.

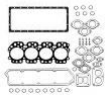
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 [4]
- PZZ90237 [5]

4) **Ring Gear**
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

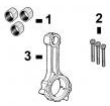
2) **Bottom Gasket**
- PU5LB1104D [3]

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046 [6]
- P3681P047 [6]

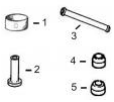
6) **Oil Pan Gasket**
- P3681K036 [6]
- P3681K037 [6]



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 [6]
- PT400001 x8 [6]

3) **Connecting Rod**
- P4115C314 [4]
- P4115C364 [5]



1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P4132V011

4) **Seal, Valve Exhaust**
- P2418M517 x4

5) **Seal, Valve Intake**
- P2418M519 x4

6) **Camshaft**
- P4112K074

7) **Cam and Lifter Kit**
- P4112K074KIT

Valve Train

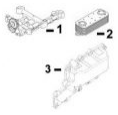
1) **Valve, Intake**
- P3142H101 x4

2) **Valve, Exhaust**
- P3142A171 x4

3) **Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

4) **Spring, Valve**
- P3174A031 x8

5) **Lock, Valve**
- P2714A002 x16



1) **Oil Pump**
- P4132F073 [1]

2) **Oil Cooler**
- P2486A215 5 plate [6]
- P2486A217 9 plate [6]

3) **Oil Cooler Assembly**
- P4134W025 [8]

Lift Pump
- PULPK0041

1) **Water Pump**
- PU5MW0208

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 [6]
- P4133L507 [6]
- P4133L508 [6]

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 [6]
- P2666A017 x4 [6]

2) **Oil Pressure Switch**
- P2848A071 [6]

3) **Water Temp Sensor**
- P2848A123 [6]
- P2848A126 [6]
- P2848A129 [6]

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

(8): Includes 9 plate oil cooler core.

Engine Series:
1100D

Engine Model:
1104D-44T (NL) / 1104D-44TA (NM)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **532** for a complete list of equipment models.

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- PBK503 Std. [3]
- PBK504 0.50 [3]
- PBK505 1.00 [3]

2) **Basic Kit**
(Rod Brg OD 68 mm)
- PBK503S Std. [3]
- PBK504S 0.50 [3]
- PBK505S 1.00 [3]
- SPEC SHEET - 1104D (NK,NL,NM)

Piston & Ring Kit
- PU5PR0062 Std.
- PU5PR0062B 0.50
- PU5PR0062D 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0034 Std. [4]
- PU5ME0034A 0.25 [4]
- PU5ME0034B 0.50 [4]
- PU5ME0034C 0.75 [4]
- PT410927 Std. [5]
- PT420155 0.25 [5]
- PT420154 0.50 [5]
- PT420153 0.75 [5]

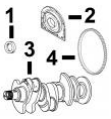
Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1) 1 x P3135M161	Piston Std,	1 x PUPRK0005	Ring Set Std.
2) 1 x P3135M162	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3) 1 x P3135M163	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.



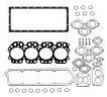
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 [4]
- PZZ90237 [5]

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT0357

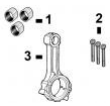
2) **Bottom Gasket**
- PU5LB1104D [3]

3) **Head Gasket**
- P3681E051

4) **Valve Cover Gsk**
- P3681A055

5) **Timing Cover Gsk**
- P3681P046 [7]
- P3681P047 [7]

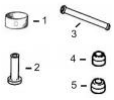
6) **Oil Pan Gasket**
- P3681K036 [7]
- P3681K037 [7]



1) **Bush, Con Rod**
- P3112A005 x4 [6]

2) **Bolt, Con Rod**
- P3212V003 [7]
- PT400001 x8 [7]

3) **Connecting Rod**
- P4115C314 [4]
- P4115C364 [5]



1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P3142V011

4) **Seal, Exh Valve**
- P2418M517 x4

5) **Seal, Intk Valve**
- P2418M519 x4

6) **Camshaft**
- P4112K072 [7]
- P4112K077 [7]
- P4112K078 [7]

7) **Cam and Lifter Kit**
- P4112K072KIT [7]
- P4112K077KIT [7]
- P4112K078KIT [7]

Valve Train Kit

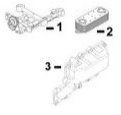
1) Valve, Intake
- P3142H101 x4

2) Valve, Exhaust
- P3142A171 x4

3) Guide, Valve (Intake & Exhaust)
- P3313A012 x8

4) Spring, Valve
- P3174A031 x8

5) Lock, Valve
- P2714A002 x16



1) **Oil Pump**
- P4132F071 [1]

2) **Oil Cooler Plate**
- P2486A217

3) **Oil Cooler Assembly**
- P4134W025 [9]

1) **Lift Pump**
- P2641A203 [7]
- PULPK0041 [7]

2) **Injector**
- P2645K025 [7]
- P2645K026 [7]

3) **Turbocharger**
- P2674A827 [7]
- P2674A835 [7]
- P2674A845 [7]

1) **Water Pump**
- PU5MW0208

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- P4133L503 [7]
- P4133L507 [7]
- P4133L508 [7]

Repair Sleeve
- 1) 105RS

2) **Cylinder Head**
- PZZ80280UF

3) **Head Bolts**
- P3218A011 x7
- P3218A012 x3

1) **Glowplug**
- P2666A016 x4 [7]
- P2666A017 x4 [7]

2) **Oil Pressure Switch**
- 2a) P2848A071 [7]
- 2b) P2848062 [7]

3) **Water Temp Sensor**
- P2848A123 [7]
- P2848A126 [7]
- P2848A129 [7]

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): To ESN U056074T.

(7): Check application for proper usage.

(8): For use with Con Rod P4115C314.

(9): Includes 9 plate oil cooler core.

Engine Series:
1100D

Engine Model:
1104D-E44T (NH) / 1104D-E44TA (NJ)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 269 in3 / 4.4 Lt

Asphalt Pavers
Vogele Super 1600-2
Vogele Super 1603-2

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- PBK506 Std. [3]
- PBK507 0.50 [3]
- PBK508 1.00 [3]

2) **Basic Kit**
(Rod Brg OD 68 mm)
- PBK506S Std.
- PBK507S 0.50 [3]
- PBK508S 1.00 [3]
- SPEC SHEET - 1104D (NH,NJ)

Piston & Ring Kit
- PU5PR0058 Std.
- PU5PR0058B 0.50
- PU5PR0058D 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0034 Std. [4]
- PU5ME0034A 0.25 [4]
- PU5ME0034B 0.50 [4]
- PU5ME0034C 0.75 [4]
- PT410927 Std. [5]
- PT420155 0.25 [5]
- PT420154 0.50 [5]
- PT420153 0.75 [5]

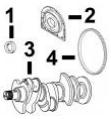
Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1)	1 x P3135M141	Piston Std,	1 x PUPRK0005	Ring Set Std.
2)	1 x P3135M142	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3)	1 x P3135M143	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.



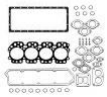
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 [4]
- PZZ90237 [5]

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT1104D

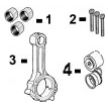
2) **Bottom Gasket**
- PU5LB1104D [3]

3) **Head Gasket**
- P3681E074

4) **Valve Cover Gsk**
- P3681A067

5) **Timing Cover Gsk**
- P3681P046 [6]
- P3681P047 [6]

6) **Oil Pan Gasket**
- P3681K036 [6]
- P3681K037 [6]



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 [6]
- PT400001 x8 [6]

3) **Connecting Rod**
- P4115C314 [4]
- P4115C364 [5]

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P3142V011

4) **Seal, Valve Stem**
- P2418M522 x16

5) **Camshaft**
- P4112K073

6) **Cam and Lifter Kit**
- P4112K073KIT

Valve Train Kit

1) **Valve, Intake**
- P3142H091 x8

2) **Valve, Exhaust**
- P3142A181 x8

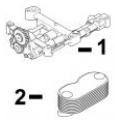
3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x16

4) **Valve, Insert In**
- P3314A251 x8

5) **Valve, Insert Ex**
- P3314A261 x8

6) **Spring, Valve**
- P3174A028 x16

7) **Lock, Valve**
- P3142W005 x32



1) **Oil Pump**
- P4132F071 [1]

2) **Oil Cooler**
- P2486A015

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847 [6]
- P4133L066 [6]
- P4133L067 [6]

4) **Thermostat Housing Gasket**
- P3682A022

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- P3218A011 x10

3) **Turbocharger**
- P2674A812 [6]

1) **Glow Plug**
- P2666A023 x4 [6]
- P2666A024 x4 [6]

2) **Air Temp Sensor**
- PU5MK1089 [6]

3) **Injector**
- P2645A746 [6]
- P2645A738 [6]

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

Engine Series:
1100D

Engine Model:
1104D-E44T (NJ)

Engine Desc:
Tier 3

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 269 in3 / 4.4 Lt

Aksa - Gensets

APD-AT56 - Generator

Grandwatt

G50XHD - Genset

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- PBK512 Std. 3
- PBK513 0.50 3
- PBK514 1.00 3

2) **Basic Kit**
(Rod Brg OD 68 mm)
- PBK512S Std. 3
- PBK513S 0.50 3
- PBK514S 1.00 3
- SPEC SHEET - 1104D (NH,NJ)

Piston & Ring Kit
- PU5PR0059 Std.
- PU5PR0059B 0.50
- PU5PR0059D 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

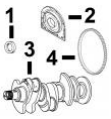
Con Rod Bearing Set
- PU5ME0034 Std. 4
- PU5ME0034A 0.25 4
- PU5ME0034B 0.50 4
- PU5ME0034C 0.75 4
- PT410927 Std. 5
- PT420155 0.25 5
- PT420154 0.50 5
- PT420153 0.75 5

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1)	1 x P3135M135	Piston Std,	1 x PUPRK0005	Ring Set Std.
2)	1 x P3135M136	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3)	1 x P3135M137	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.



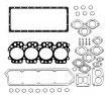
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 4
- PZZ90237 5

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT1104D

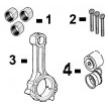
2) **Bottom Gasket**
- PU5LB1104D 3

3) **Head Gasket**
- P3681E074

4) **Valve Cover Gsk**
- P3681A067

5) **Timing Cover Gsk**
- P3681P046 6
- P3681P047 6

6) **Oil Pan Gasket**
- P3681K036 6
- P3681K037 6



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 6
- PT400001 x8 6

3) **Connecting Rod**
- P4115C314 4
- P4115C364 5

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P3142V011

4) **Seal, Valve Stem**
- P2418M522 x16

5) **Camshaft**
- P4112K073

6) **Cam and Lifter Kit**
- P4112K073KIT

Valve Train

1) **Valve, Intake**
- P3142H091 x8

2) **Valve, Exhaust**
- P3142A181 x8

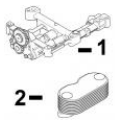
3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x16

4) **Valve, Insert In**
- P3314A251 x8

5) **Valve, Insert Ex**
- P3314A261 x8

6) **Spring, Valve**
- P3174A028 x16

7) **Lock, Valve**
- P3142W005 x32



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A015

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847 6
- P4133L066 6
- P4133L067 6

4) **Thermostat Housing Gasket**
- P3682A022

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A011 x10

1) **Glow Plug**
- P2666A023 x4
- P2666A024 x4

2) **Air Temp Sensor**
- PU5MK1089 6

3) **Injector**

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

Engine Series:
1100D

Engine Model:
1104D-E44T (NH) / 1104D-E44TA (NJ)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 269 in3 / 4.4 Lt

Please see page **533** for a complete list of equipment models.

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- PBK509 Std. (3)
- PBK510 0.50 (3)
- PBK511 1.00 (3)

2) **Basic Kit**
(Rod Brg OD 68 mm)
- PBK509S Std. (3)
- PBK510S 0.50 (3)
- PBK511S 1.00 (3)
- SPEC SHEET - 1104D (NH,NJ)

Piston & Ring Kit
- PU5PR0060 Std.
- PU5PR0060B 0.50
- PU5PR0060D 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

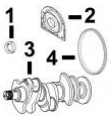
Con Rod Bearing Set
- PU5ME0034 Std. (4)
- PU5ME0034A 0.25 (4)
- PU5ME0034B 0.50 (4)
- PU5ME0034C 0.75 (4)
- PT410927 Std. (5)
- PT420155 0.25 (5)
- PT420154 0.50 (5)
- PT420153 0.75 (5)

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1)	1 x P3135M151	Piston Std,	1 x PUPRK0005	Ring Set Std.
2)	1 x P3135M152	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3)	1 x P3135M153	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.



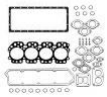
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 (4)
- PZZ90237 (5)

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT1104D

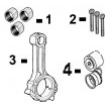
2) **Bottom Gasket**
- PU5LB1104D (3)

3) **Head Gasket**
- P3681E074

4) **Valve Cover Gsk**
- P3681A067

5) **Timing Cover Gsk**
- P3681P046 (6)
- P3681P047 (6)

6) **Oil Pan Gasket**
- P3681K036 (6)
- P3681K037 (6)



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 (6)
- PT400001 x8 (6)

3) **Connecting Rod**
- P4115C314 (4)
- P4115C364 (5)

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P3142V011

4) **Seal, Valve Stem**
- P2418M522 x16

5) **Camshaft**
- P4112K073

6) **Cam and Lifter Kit**
- P4112K073KIT

Valve Train Kit

1) **Valve, Intake**
- P3142H091 x8

2) **Valve, Exhaust**
- P3142A181 x8

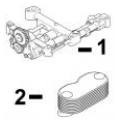
3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x16

4) **Valve, Insert In**
- P3314A251 x8

5) **Valve, Insert Ex**
- P3314A261 x8

6) **Spring, Valve**
- P3174A028 x16

7) **Lock, Valve**
- P3142W005 x32



1) **Oil Pump**
- P4132F071 (1)

2) **Oil Cooler**
- P2486A015

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847 (6)
- P4133L066 (6)
- P4133L067 (6)

4) **Thermostat Housing Gasket**
- P3682A022

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- P3218A011 x10

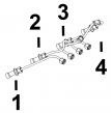
3) **Turbocharger**
- P2674A805 (6)
- P2674A812 (6)
- P2674A808 (6)

1) **Glow Plug**
- P2666A023 x4
- P2666A024 x4

2) **Air Temp Sensor**
- PU5MK1089 (6)

3) **Injector**
- P2645A746 (6)
- P2645A738 (6)

4) **Piston Cooling Nozzle**
- P2113A003



Fuel Lines
- 1) P3525A211
- 2) P3525A212
- 3) P3525A222
- 4) P3525A223

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

(8): Check application for proper usage.

Engine Series:
1100D

Engine Model:
1104D-E44TA (NJ)

Engine Desc:
Tier 3

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Asphalt Pavers

Vogele Super 1600-2
Vogele Super 1603-2

Atlas Copco Generator

QAS100

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- PBK515 Std. 3
- PBK516 0.50 3
- PBK517 1.00 3

2) **Basic Kit**
(Rod Brg OD 68 mm)
- PBK515S Std. 3
- PBK516S 0.50 3
- PBK517S 1.00 3
- SPEC SHEET - 1104D (NH,NJ)

Piston & Ring Kit
- PU5PR0061 Std.
- PU5PR0061B 0.50
- PU5PR0061D 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0034 Std. 4
- PU5ME0034A 0.25 4
- PU5ME0034B 0.50 4
- PU5ME0034C 0.75 4
- PT410927 Std. 5
- PT420155 0.25 5
- PT420154 0.50 5
- PT420153 0.75 5

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

1)	1 x P3135M145	Piston Std,	1 x PUPRK0005	Ring Set Std.
2)	1 x P3135M146	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3)	1 x P3135M147	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.

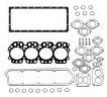
1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PZZ90239 4
- PZZ90237 6 5

4) **Ring Gear**
- P0410236 115T
- P31162121 126T

5) **Crankshaft Gear**
- P3117C221



1) **Top Gasket Set**
- PU5LT1104D

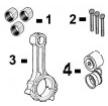
2) **Bottom Gasket**
- PU5LB1104D 3

3) **Head Gasket**
- P3681E074

4) **Valve Cover Gsk**
- P3681A067

5) **Timing Cover Gsk**
- P3681P046 6
- P3681P047 6

6) **Oil Pan Gasket**
- P3681K036 6
- P3681K037 6



1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- P3212V003 x8 6
- PT400001 x8 6

3) **Connecting Rod**
- P4115C314 4
- P4115C364 5

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P3142V011

4) **Seal, Valve Stem**
- P2418M522 x16

5) **Camshaft**
- P4112K073

6) **Cam and Lifter Kit**
- P4112K073KIT

Valve Train

1) **Valve, Intake**
- P3142H091 x8

2) **Valve, Exhaust**
- P3142A181 x8

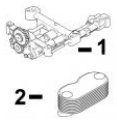
3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x16

4) **Valve, Insert In**
- P3314A251 x8

5) **Valve, Insert Ex**
- P3314A261 x8

6) **Spring, Valve**
- P3174A028 x16

7) **Lock, Valve**
- P3142W005 x32



1) **Oil Pump**
- P4132F071 1

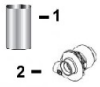
2) **Oil Cooler**
- P2486A015

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847 6
- P4133L066 6
- P4133L067 6

4) **Thermostat Housing Gasket**
- P3682A022



1) **Repair Sleeve**
- 105RS

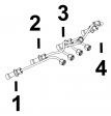
2) **Turbocharger**
- P2674A805 6
- P2674A807 6

1) **Glow Plug**
- P2666A023 x4
- P2666A024 x4

2) **Air Temp Sensor**
- PU5MK1089 6

3) **Injector**

4) **Piston Cooling Nozzle**
- P2113A003



Fuel Lines
- 1) P3525A211
- 2) P3525A212
- 3) P3525A222
- 4) P3525A223

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

Engine Series:
1100D

Engine Model:
1104D-E44T (NP) / 1104D-E44TA (NR)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

1) **Basic Kit**
- PBK531 Std. 2
- PBK532 0.50 2
- PBK533 1.00 2
- SPEC SHEET - 1104D-E44T (NP)

Piston & Ring Kit
- PT417728 Std.
- PT417955 0.50
- PT418001 1.00

4 Per Engine

Main Bearing Set
- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs

Con Rod Bearing Set
- PT410927 Std.
- PT420155 0.25
- PT420154 0.50
- PT420153 0.75

Thrust Washer Set
- PU5TW0002 Std.
- PU5TW0002B O/S

Set of 2 Pairs

Piston Kit:

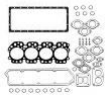
1) 1 x P3135M151	Piston Std,	1 x PUPRK0005	Ring Set Std.
2) 1 x P3135M152	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3) 1 x P3135M153	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PT415205

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT1104D

2) **Bottom Gasket**
- PU5LB1104D 2

3) **Head Gasket**
- P3681E074

4) **Valve Cover Gsk**
- PT414788

5) **Timing Cover Gsk**
- P3681P046 4
- P3681P047 4

6) **Oil Pan Gasket**
- P3681K036 4
- P3681K037 4

1) **Bush, Con Rod**
- P3112A005 x4

2) **Bolt, Con Rod**
- PT400001 x8

3) **Connecting Rod**
- P4115C364

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- P3112D071 x1

2) **Tappet**
- P3142U061

3) **Pushrod**
- P3142V011

4) **Seal, Valve Stem**
- P2418M522 x16

Valve Train Kit

1) **Valve, Intake**
- P3142H091 x8

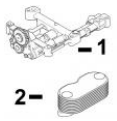
2) **Valve, Exhaust**
- P3142A181 x8

3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x16

4) **Valve, Insert In**
5) **Valve, Insert Ex**
- 4) P3314A251 x8
- 5) P3314A261 x8

6) **Spring, Valve**
- P3174A028 x16

7) **Lock, Valve**
- P3142W005 x32



1) **Oil Pump**
- P4132F071 1

2) **Oil Cooler**
- P2486A015

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847

4) **Thermostat Housing Gasket**
- P3682A022

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- P3218A011 x10

1) **Glow Plug**
- PT419164 x4

2) **Air Temp Sensor**
- PU5MK1089 3

(1): Not to be used on engines with balancer units.

(2): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(3): Check application for proper usage.

(4): Check build list for proper application

PERKINS 1106-E60TA VK BUILDS

Engine Series:	Engine Model:	Engine Info:	Engine Dimensions:
1100	1106-E60TA (VK)	6 Cyl	Bore: 3.9370 in / 100.00 mm

Please see page **534** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK649

2) **Basic Engine Kit**
- PBK649
- SPEC SHEET - 1106 (VK)

Piston & Ring Kit
- PCK0162

Consists of:
- a) P4115P001
- b) PUPRK0001
- c) P3135X062 3

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

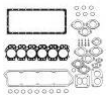
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F701

3) **Crankshaft Kit**
- PZZ90228 1

4) **Ring Gear**
- P31162121 126T

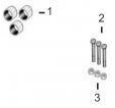


1) **Top Gasket Set**
- PU5LT0349

2) **Bottom Gasket**
- PU5LB0374 2

3) **Head Gasket**
- P3681E043

4) **Oil Pan Gasket**
- P3681M007



1) **Bush, Con Rod**
- P3112E011 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x6

5) **Seal, Intk Valve**
- P2418M506 x6

6) **Camshaft**
- P3141F022 4

7) **Cam and Lifter Kit**
- P3141F022KIT 5 4

Valve Train Kit
- PVTK620

1) **Valve, Intake**
- P3142L081 x6

2) **Valve, Exhaust**
- P3142D031 x6

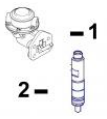
3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3313A012 x6
- 3b) P3318A705 x6

4) **Spring, Valve**
- P3174P409 x12

5) **Lock, Valve**
- P3142W004 x24

1) **Oil Pump**
- P4132F067

2) **Oil Cooler**
- P2486A993



1) **Lift Pump**
- PULPK0036

2) **Injector**
- P2645F027 4

1) **Water Pump**
- PU5MW0196

2) **Water Pump Gasket**
- P3687Y016

1) **Temp Sensor**
- P2874A018 4

2) **Oil Pressure Sensor**
- P2874A007 4

1) **Thermostat**
- P2485C034

2) **Piston Cooling Nozzle**
- P3861A027

(1): To ESN U090153J.
(2): For Builds (VK37779 to VK37787) use U5LB0370.
(3): Flanged, Semi Finished Liner available, P3135X063
(4): Check for proper application.
(5): Contains P3141F022 x 1 and P31434163 x 12.

PERKINS 1106-E60TA VK BUILDS FRACTURED SPLIT ROD

Engine Series:	Engine Model:	Engine Info:	Engine Dimensions:
1100	1106-E60TA (VK)	6 Cyl	Bore: 3.9370 in / 100.00 mm

Please see page **535** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK694

2) **Basic Engine Kit**
- PBK694
- SPEC SHEET - 1106 (VK)

Piston & Ring Kit
- PCK0162

Consists of:
- a) P4115P001
- b) PUPRK0001
- c) P3135X062 4

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- PU5ME0025 Std.
- PU5ME0025A 0.010
- PU5ME0025B 0.020
- PU5ME0025C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

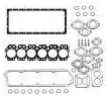
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F701

3) **Crankshaft Kit**
- PZZ90228 1

4) **Ring Gear**
- P31162121 126T

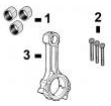


1) **Top Gasket Set**
- PU5LT0349

2) **Bottom Gasket**
- PU5LB0374 2

3) **Head Gasket**
- P3681E043

4) **Oil Pan Gasket**
- P3681M007



1) **Bush, Con Rod**
- P3112A005 x6

2) **Bolt, Con Rod**
- P3212V003 x12

3) **Con Rod Kit**
- P4115C314 3

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

4) **Seal, Exh Valve**
- P2418M505 x6

5) **Seal, Intk Valve**
- P2418M506 x6

6) **Camshaft**
- P3141F022 5

7) **Cam and Lifter Kit**
- P3141F022KIT 6 5

Valve Train Kit
- PVTK620

1) Valve, Intake
- P3142L081 x6

2) Valve, Exhaust
- P3142D031 x6

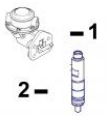
3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3313A012 x6
- 3b) P3318A705 x6

4) Spring, Valve
- P3174P409 x12

5) Lock, Valve
- P3142W004 x24

1) **Oil Pump**
- P4132F067

2) **Oil Cooler**
- P2486A993



1) **Lift Pump**
- PULPK0036

2) **Injector**
- P2645F027 5

1) **Water Pump**
- PU5MW0196

2) **Water Pump Gasket**
- P3687Y016

1) **Temp Sensor**
- P2874A018 5

2) **Oil Pressure Sensor**
- P2874A007 5

1) **Thermostat**
- P2485C034

2) **Piston Cooling Nozzle**
- P3861A027

(1): From ESN U090154J.
(2): For Builds (VK37779 to VK37787) use U5LB0370.
(3): Grade J, Color Coded Green.
(4): Flanged, Semi Finished Liner available, P3135X063
(5): Check for proper application.
(6): Contains P3141F022 x 1 and P31434163 x 12.

Engine Series:
1106D

Engine Model:
1106C - E66TA (PK) / 1106D - E66TA (PJ)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 402.76 in3 / 6.6 Lt

Aksa
APD-EPAP150
APD-EPAP150S
APD-EPAP178
APD-ULP150
AT150

Asphalt Pavers
Vogele Super 1800-2
Vogele Super 1803-2

Godlike
GDP135*S - Genset
GDP150*S - Genset
GDP180*S - Genset

Basic Kit
(Rod Brg OD 63.5 mm)
- PBK700 — 1
- PBK701 0.50 — 1
- PBK702 1.00 — 1
- SPEC SHEET - 1106C (PK)

Piston & Ring Kit
- PU5PR0058 Std.
- PU5PR0058B 0.50
- PU5PR0058D 1.00

6 Per Engine

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

Piston Kit:

1) 1 x P3135M141	Piston Std,	1 x PUPRK0005	Ring Set Std.
2) 1 x P3135M142	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3) 1 x P3135M143	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F705

3) **Crankshaft Kit**
- PZZ90242 — 2
- P4181V019 — 2

4) **Ring Gear**
- P31162121 126T

1) **Top Gasket Set**
- PU5LT1106D

2) **Bottom Gasket**
- PU5LB1106D — 1

3) **Head Gasket**
- P3681E052

4) **Valve Cover Gsk**
- P3681A068

5) **Timing Cover Gsk**
- P3681P046 — 2
- P3681P047 — 2

6) **Oil Pan Gasket**
- P3681K041 — 2
- P3681K044 — 2

7) **Gasket Exh Manifold**
- P3681V015

8) **Gasket Intake Manifold**
- P3681V016

9) **Rocker Cover Gasket**
- P3681A059 — 2
- P3681A065 — 2

1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- P3212V003 x12 — 2
- PT400001 x12 — 2

3) **Connecting Rod**
- PT405440 — 3

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- PT410164 x1

2) **Tappet**
- P3142U051 x12

3) **Pushrod**
- P3142V011 x12

4) **Seal, Valve Stem**
- P2418M522 x24

5) **Camshaft**
- P4112K007 — 7

6) **Cam and Lifter Kit**
- P4112K007KIT — 7

Valve Train

1) **Valve, Intake**
- P3142H091 x12

2) **Valve, Exhaust**
- P3142A181 x12

3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x24

4) **Valve, Insert In**
- P3314A251 x12

5) **Valve, Insert Ex**
- P3314A261 x12

6) **Spring, Valve**
- P3174A025 x24

7) **Lock, Valve**
- P3142W005 x48

1) **Oil Pump**
- PT410626

2) **Oil Cooler**
- P2486A002 — 2
- P2486A231 — 2

1) **Water Pump**
- PU5MW0204 — 2
- PU5MW0205 — 2

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847 — 2
- P4133L066 — 2
- P4133L067 — 2

4) **Thermostat Housing Gasket**
- P3682A022

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A017 x14

3) **Cylinder Head**
- P4181V022UF — 7

1) **Glow Plug**
- P2666A016 x6 — 4
- P2666A017 x6 — 6 — 4
- P2666A023 x6 — 5
- P2666A024 x6 — 6 — 5

2) **Air Temp Sensor**
- PU5MK1089 — 2

3) **Injector**
- P2645A751 — 7
- P2645A746 — 7
- P2645A749 — 7
- P2645A753 — 7
- P2645A738 — 7
- P2645A745 — 7

4) **Piston Cooling Nozzle**
- P2113A003

Fuel Lines
- 1) P3525A201
- 2) P3525A202
- 3) P3525A203
- 4) P3525A204
- 5) P3525A205
- 6) P3525A206

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.
(2): Check build list for proper application.
(3): Grade J, Color Coded Green.
(4): Use with Cylinder Head casting number 3712L08A.
(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
(6): PJ Build only.
(7): Check application for proper usage.

Engine Series:
1106D

Engine Model:
1106C - E66TA (PK) / 1106D - E66TA (PJ)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 402.76 in3 / 6.6 Lt

Aksa
APD-EPAP150
APD-EPAP150S
APD-EPAP178
APD-ULP150
AT150

Asphalt Pavers
Vogele Super 1800-2
Vogele Super 1803-2

Godlike
GDP135*S - Genset
GDP150*S - Genset
GDP180*S - Genset

Basic Kit
(Rod Brg OD 63.5 mm)
- PBK703 Std. — 1
- PBK704 0.50 — 1
- PBK705 1.00 — 1
- SPEC SHEET - 1106C (PK)

Piston & Ring Kit
- PU5PR0059 Std.
- PU5PR0059B 0.50
- PU5PR0059D 1.00

6 Per Engine

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

Piston Kit:

1) 1 x P3135M135	Piston Std,	1 x PUPRK0005	Ring Set Std.
2) 1 x P3135M136	Piston 0.50 mm,	1 x PUPRK0005B	Ring Set 0.50 mm.
3) 1 x P3135M137	Piston 1.00 mm,	1 x PUPRK0005D	Ring Set 1.00 mm.

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F705

3) **Crankshaft Kit**
- PZZ90242 — 2
- P4181V019 — 2

4) **Ring Gear**
- P31162121 126T

1) **Top Gasket Set**
- PU5LT1106D

2) **Bottom Gasket**
- PU5LB1106D — 1

3) **Head Gasket**
- P3681E052

4) **Valve Cover Gsk**
- P3681A068

5) **Timing Cover Gsk**
- P3681P046 — 2
- P3681P047 — 2

6) **Oil Pan Gasket**
- P3681K041 — 2
- P3681K044 — 2

7) **Gasket Exh Manifold**
- P3681V015

8) **Gasket Intake Manifold**
- P3681V016

9) **Rocker Cover Gasket**
- P3681A059 — 2
- P3681A065 — 2

1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- P3212V003 x12 — 2
- PT400001 x12 — 2

3) **Connecting Rod**
- PT405440 — 3

4) **Tensioner, Belt**
- PT411130

1) **Bushing, Cam**
- PT410164 x1

2) **Tappet**
- P3142U051 x12

3) **Pushrod**
- P3142V011 x12

4) **Seal, Valve Stem**
- P2418M522 x24

5) **Camshaft**
- P4112K007 — 7

6) **Cam and Lifter Kit**
- P4112K007KIT — 7

Valve Train

1) **Valve, Intake**
- P3142H091 x12

2) **Valve, Exhaust**
- P3142A181 x12

3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x24

4) **Valve, Insert In**
- P3314A251 x12

5) **Valve, Insert Ex**
- P3314A261 x12

6) **Spring, Valve**
- P3174A025 x24

7) **Lock, Valve**
- P3142W005 x48

1) **Oil Pump**
- PT410626

2) **Oil Cooler**
- P2486A002 — 2
- P2486A231 — 2

1) **Water Pump**
- PU5MW0204 — 2
- PU5MW0205 — 2

2) **Water Pump Gasket**
- P3682A011

3) **Thermostat**
- PT413847 — 2
- P4133L066 — 2
- P4133L067 — 2

4) **Thermostat Housing Gasket**
- P3682A022

Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A017 x14

3) **Cylinder Head**
- P4181V022UF — 7

1) **Glow Plug**
- P2666A016 x6 — 4
- P2666A017 x6 — 6 — 4
- P2666A023 x6 — 6 — 5
- P2666A024 x6 — 6 — 5

2) **Air Temp Sensor**
- PU5MK1089 — 2

3) **Injector**
- P2645A751 — 7
- P2645A746 — 7
- P2645A749 — 7
- P2645A753 — 7
- P2645A738 — 7
- P2645A745 — 7

4) **Piston Cooling Nozzle**
- P2113A003

Fuel Lines
- 1) P3525A201
- 2) P3525A202
- 3) P3525A203
- 4) P3525A204
- 5) P3525A205
- 6) P3525A206

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.
(2): Check build list for proper application.
(3): Grade J, Color Coded Green.
(4): Use with Cylinder Head casting number 3712L08A.
(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
(6): PJ Build only.
(7): Check application for proper usage.

Engine Series:
1106C/D

Engine Model:
1106A-70TG (PP), 1106A-70TA (PR)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.31 in / 135.00 mm
Displacement: 427.7 in3 /7.01 Lt

Please see page **536** for a complete list of equipment models.

Basic Kit
- PBK720 1
- PBK721 0.50 1
- PBK7222 1.00 1

Piston & Ring Kit
- PT412276 Std.
- PT400482 0.50
- PT400483 1.00

2) **Ring Set**
- PUPRK0005 Std.
- PUPRK0005B 0.50
- PUPRK0005D 1.00

6 Per Engine

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

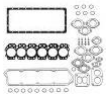
Set of 2 Pcs

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PT411539 2

4) **Ring Gear**
- P3116C001 134T



1) **Top Gasket Set**
- PU5LTA110670

2) **Bottom Gasket**
- PU5LBA110670 1

3) **Head Gasket**
- PT408652

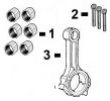
4) **TmingCover Gasket - Front Side**
- P3681P046 2
- P3681P047 2

5) **Timing Cover Gasket - Rear side**
- P3681P053

6) **Oil Pan Gasket**
- PT407678 2

7) **Gasket Exhaust Manifold**
- PT414387

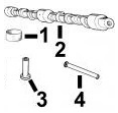
8) **Gasket Intake Manifold**
- P3682A013



1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- PT400001 x12

3) **Connecting Rod**
- PT405440 2



1) **Bushing, Cam**
- PT410164 x1

2) **Camshaft**
- PT406607

3) **Tappet**
- P31434163 x12

4) **Pushrod**
- P31434307 x12

Valve Train

1) **Valve, Intake**
- PT423393 x12

2) **Valve, Exhaust**
- P3142A171 x12

3) **Guide, Valve**
- PT406143 x24

4) **Spring, Valve**
- PT417881 x24

5) **Valve, Insert Intake**
- PT405479 x12

6) **Valve, Insert Exhaust**
- PT411475 x12

7) **Seal, Valve Stem Intake**
- P2418M519 x12

8) **Seal, Valve Stem Exhaust**
- P2418M517 x12

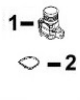
9) **Lock, Valve**
- P2714A002 x48

1) **Oil Pump**
- PT410626

2) **Oil Cooler**
- P2486A002 2

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011



1) **Thermostat**
- PT413847

2) **Thermostat Housing Gasket**
- P3682A022

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- B335-7055 x14

1) **Glowplug**
- B298-3484 2

2) **Piston Cooling Nozzle**
- PT405344

(1): Lower gasket set does not contain the Front timing cover gasket nor the oil pan gasket. Please order separately
(2): Check application for proper usage
(3): Included in the Bottom Set
(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
(6): PJ Build only.
(7): Check application for proper usage.

Engine Series:
1106C/D

Engine Model:
1106C/D-70TA (PT & PU)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.31 in / 135.00 mm
Displacement: 427.7 in3 /7.01 Lt

Build List

PT51840R
PT82391R
PT82442
PT82442R
PT83393R
PU82524R
PU82919R
PU83256R
PU83397R
PU83577

Basic Kit
- PBK710 [1]
- PBK711 0.50 [1]
- PBK712 1.00 [1]

Piston & Ring Kit
- PT415098 Std.
- PT415098B 0.50
- PT415098D 1.00

2) **Ring Set**
- PUPRK0005 Std.
- PUPRK0005B 0.50
- PUPRK0005D 1.00

6 Per Engine

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F704

3) **Crankshaft Kit**
- PT411539 [2]

4) **Ring Gear**
- P3116C001 134T

1) **Top Gasket Set**
- PU5LTA110670

2) **Bottom Gasket**
- PU5LBA110670 [1]

3) **Head Gasket**
- PT408652

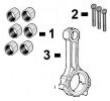
4) **TmingCover Gasket - Front Side**
- P3681P046 [2]
- P3681P047 [2]

5) **Timing Cover Gasket - Rear side**
- P3681P053

6) **Oil Pan Gasket**
- PT407678 [2]

7) **Gasket Exhaust Manifold**
- PT414387

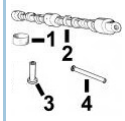
8) **Gasket Intake Manifold**
- P3682A013



1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- PT400001 x12

3) **Connecting Rod**
- PT405440 [2]



1) **Bushing, Cam**
- PT410164 x1

2) **Camshaft**
- PT406607

3) **Tappet**
- P31434163 x12

4) **Pushrod**
- P31434307 x12

Valve Train

1) **Valve, Intake**
- PT423393 x12

2) **Valve, Exhaust**
- P3142A171 x12

3) **Guide, Valve**
- PT406143 x24

4) **Spring, Valve**
- PT417881 x24

5) **Valve, Insert Intake**
- PT405479 x12

6) **Valve, Insert Exhaust**
- PT411475 x12

7) **Seal, Valve Stem Intake**
- P2418M519 x12

8) **Seal, Valve Stem Exhaust**
- P2418M517 x12

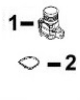
9) **Lock, Valve**
- P2714A002 x48

1) **Oil Pump**
- PT410626

2) **Oil Cooler**
- P2486A002 [2]

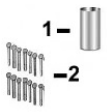
1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011



1) **Thermostat**
- PT413847

2) **Thermostat Housing Gasket**
- P3682A022



1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- B335-7055 x14

1) **Glowplug**
- B298-3484 [2]

2) **Piston Cooling Nozzle**
- PT405344

(1): Lower gasket set does not contain the Front timing cover gasket nor the oil pan gasket. Please order separately
(2): Check application for proper usage
(3): Included in the Bottom Set
(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
(6): PJ Build only.
(7): Check application for proper usage.

PERKINS 1106D-E70TTA (PW)

Engine Series:
1106

Engine Model:
1106D-E70TTA (PW)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.31 in / 135.00 mm
Displacement: 427.7 in3 / 7.01 Lt

Please see page **537** for a complete list of equipment models.

Basic Kit
- PBK714 1
- PBK715 0.50 1
- PBK716 1.00 1

Piston & Ring Kit
- PT417298 Std.
- PT417298B 0.50
- PT417298D 1.00

6 Per Engine

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F704

3) **Crankshaft**
- PT411539 2

4) **Ring Gear**
- P31162121 126T

1) **Top Gasket Set**
- PU5LTB110670

2) **Bottom Gasket**
- PU5LBB110670 1

3) **Head Gasket**
- PT412648

4) **Valve Cover Gasket**
- PT427303 Upper
- PT413377 Lower

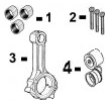
5) **Timing Cover Gasket - Front Side**
- P3681P046 2
- P3681P047 2

Timing Cover Gasket - Rear Side
- P3681P053

6) **Oil Pan Gasket**
- PT407678

7) **Exhaust Manifold Gasket**
- PT414387

8) **Intake Manifold Gasket**
- P3682A013

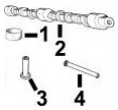


1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- PT400001 x12

3) **Connecting Rod**
- PT405440 3

4) **Tensioner, Belt**
- PT411130



1) **Bushing, Cam**
- PT410164 x1

2) **Tappet**
- P3142U051 x12

3) **Pushrod**
- P3142V011 x12

5) **Camshaft**
- PT413091 7

Valve Train

Valve, Intake
- P3142H091 x12

Valve, Exhaust
- P3142A181 x12

Guide, Valve
- P3313A035 x24

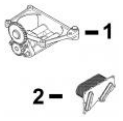
Seal, Valve Stem
- P2418M522 x24

Insert, valve Intake
- P3314A251 x12

Insert, Valve Exhaust
- P3314A261 x12

Spring, Valve
- P3174A025 x24

Lock, Valve
- P3142W005 x48



1) **Oil Pump**
- PT410626

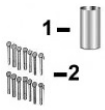
2) **Oil Cooler**
- P2486A002 2
- P2486A231 2

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

1) **Thermostat**
- PT413847

2) **Thermostat Housing Gasket**
- P3682A022



Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A017 x14

1) **Glow Plug**
- PT419164 x6

2) **Piston Cooling Nozzle**
- PT405344

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.
(2): Check build list for proper application.
(3): Grade G, Color Coded Green.
(4): Use with Cylinder Head casting number 3712L08A.
(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
(6): PJ Build only.
(7): Check application for proper usage.

Engine Series:
1106

Engine Model:
1106D-E70TTA (PW)

Engine Data:
TURBOCHARGED Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.31 in / 135.00 mm
Displacement: 427.7 in3 / 7.01 Lt

Please see page **538** for a complete list of equipment models.

Basic Kit
- PBK723 1
- PBK724 0.50 1
- PBK725 1.00 1

Piston & Ring Kit
- PT417956 Std.
- PT413520 0.50
- PT413544 1.00

6 Per Engine

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

1) **Front Seal**
- P2418F554

2) **Rear Seal**
- P2418F704

3) **Crankshaft**
- PT411539 2

4) **Ring Gear**
- P31162121 126T

1) **Top Gasket Set**
- PU5LTB110670

2) **Bottom Gasket**
- PU5LBB110670 1

3) **Head Gasket**
- PT412648

4) **Valve Cover Gasket**
- PT427303 Upper
- PT413377 Lower

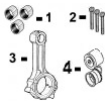
5) **Timing Cover Gasket - Front Side**
- P3681P046 2
- P3681P047 2

Timing Cover Gasket - Rear Side
- P3681P053

6) **Oil Pan Gasket**
- PT407678

7) **Exhaust Manifold Gasket**
- PT414387

8) **Intake Manifold Gasket**
- P3682A013

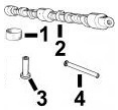


1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- PT400001 x12

3) **Connecting Rod**
- PT405440 3

4) **Tensioner, Belt**
- PT411130



1) **Bushing, Cam**
- PT410164 x1

2) **Tappet**
- P3142U051 x12

3) **Pushrod**
- P3142V011 x12

5) **Camshaft**
- PT413091 7

Valve Train

Valve, Intake
- P3142H091 x12

Valve, Exhaust
- P3142A181 x12

Guide, Valve
- P3313A035 x24

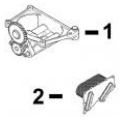
Seal, Valve Stem
- P2418M522 x24

Insert, valve Intake
- P3314A251 x12

Insert, Valve Exhaust
- P3314A261 x12

Spring, Valve
- P3174A025 x24

Lock, Valve
- P3142W005 x48



1) **Oil Pump**
- PT410626

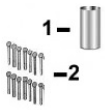
2) **Oil Cooler**
- P2486A002 2
- P2486A231 2

1) **Water Pump**
- PU5MW0204

2) **Water Pump Gasket**
- P3682A011

1) **Thermostat**
- PT413847

2) **Thermostat Housing Gasket**
- P3682A022



Repair Sleeve
- 105RS

2) **Head Bolts**
- P3218A017 x14

1) **Glow Plug**
- PT419164 x6

2) **Piston Cooling Nozzle**
- PT405344

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.
(2): Check build list for proper application.
(3): Grade G, Color Coded Green.
(4): Use with Cylinder Head casting number 3712L08A.
(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
(6): PJ Build only.
(7): Check application for proper usage.

Engine Series:
1206

Engine Model:
1206E-E70TTA (BL)

Engine Data:
TURBOCHARGED Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13 in / 105.00 mm
Stroke: 5.31 in / 135.00 mm
Displacement: 427.7 in3 / 7.01 Lt

Please see page **539** for a complete list of equipment models.

Basic Kit
- PBK717 1
- PBK718 0.50 1
- PBK719 1.00 1

Piston & Ring Kit
- PT409184 Std.
- PT400498 0.50
- PT400499 1.00

6 Per Engine

2) **Ring Set**
- PT409187 Std.
- PT418420 0.50
- PT418421 1.00

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

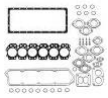
Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

1) **Front Seal**
- PT406781

2) **Rear Seal**
- P2418F705

3) **Crankshaft**
- PT411539 2



1) **Top Gasket Set**
- PU5LT1206E

2) **Bottom Gasket**
- PU5LB1206E 2

3) **Head Gasket**
- PT416115

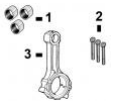
4) **Valve Cover Gasket**
- PT407192

Exhaust Manifold Gasket
- PT410538 x2

5) **Timing Cover Gasket - Front Side**
- PT405824 3
- PT406926 4

Timing Cover Gasket - Rear Side
- PT406050 5
- PT405410 6

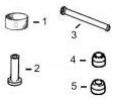
6) **Oil Pan Gasket**
- P3681K044 Upper
- P3681K041 Lower



1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- PT400001 x12

3) **Connecting Rod**
- PT406141 7



1) **Bushing, Cam**
- PT410164 x1

2) **Tappet**
- PT411902 x12

3) **Pushrod**
- P3142V011 x12

5) **Camshaft**
- PT405773 7

Valve Train

1) Valve, Intake
- PT406777 x12

2) Valve, Exhaust
- PT405211 x12

3) Guide, Valve (Intake & Exhaust)
- PT407959 x24

4) Seal, Valve Stem
- PT412573 x24

5) Valve, Insert Intake
- PT407000 x12

6) Valve, Insert Exhaust
- PT406545 x12

7) Spring, Valve Intake
- PT417713 x12

Spring, Valve Exhaust
- PT417519 x12

8) Lock, Valve
- P3142W003 x48

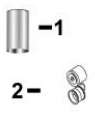
1) **Oil Pump**
- PT411864

2) **Oil Cooler**
- PT417740

1) **Water Pump**
- PT413424

2) **Water Pump Gasket**
- PT407626

3) **Thermostat**
- PT423554 7
- PT414226 7



1) **Repair Sleeve**
- 105RS

2) **Tensioner, Belt**
- PT411130

3) **Head Bolts**
- P3218A017 x14

1) **Glow Plug**
- P2666A023 4
- P2666A024

3) **Injector**
- PT409980 7

4) **Piston Cooling Nozzle**
- PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(3): Use with Timing cover – Rear Side PT406050
(4): Use with Timing cover – Rear Side PT405410
(5): Use with Timing Cover – Front Side PT405824
(6): Use with Timing Cover – Front Side PT406926
(7): Check application for proper usage

PERKINS 1204E-E44TA (MK)

Engine Series:
1204E

Engine Model:
Perkins 1204E-E44TA (MK)

Engine Data:
TURBOCHARGED Tier 4 Interim

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 268.50 in3 / 4.4 Lt

Please see page **540** for a complete list of equipment models.

Basic Kit
- PBK538 [1]
- PBK539 0.50 [1]
- PBK540 1.00 [1]
- SPEC SHEET - 1204E-E44TA (MK)

Piston & Ring Kit
- PT400108 Std.
- PT410926 0.50
- PT418426 1.00

4 Per Engine

2) **Ring Set**
- PT409187 Std.
- PT418420 0.50
- PT418421 1.00

Main Bearing Set
- PT427328 Std.
- PT427325 0.25
- PT427326 0.50
- PT427322 0.75

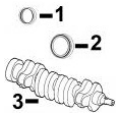
Set of 5 Pairs

Con Rod Bearing Set
- PT410927 Std.
- PT420155 0.25
- PT420154 0.50
- PT420153 0.75

Set of 4 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs



1) **Front Seal**
- PT406781

2) **Rear Seal**
- P2418F704

3) **Crankshaft**
- PT422325 [2]

1) **Top Gasket Set**
- PU5LT1204E

2) **Bottom Gasket**
- PU5LB1204E [2]

3) **Head Gasket**
- PT406619

4) **Valve Cover Gasket**
- PT400093

Exhaust Manifold Gasket
- PT407220

5) **Timing Cover Gasket - Front Side**
- PT405824 [3]
- PT406926 [4]

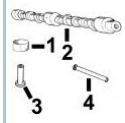
Timing Cover Gasket - Rear Side
- PT406050 [5]
- PT405410 [6]

6) **Oil Pan Gasket**
- P3681K037

1) **Bush, Con Rod**
- P3112E031 x4

2) **Bolt, Con Rod**
- PT400001 x8

3) **Conn. Rod**
- PT405102 x4 [7]



1) **Bushing, Cam**
- PT410164 x1

2) **Camshaft**
- PT408625

3) **Tappet**
- PT411902 x8

4) **Pushrod**
- P3142V011 x8

Valve Train

1) **Valve, Intake**
- PT406777 x8

2) **Valve, Exhaust**
- PT405211 x8

3) **Guide, Valve (Intake & Exhaust)**
- PT407959 x16

4) **Seal, Valve Stem**
- PT412573 x16

5) **Valve, Insert Intake**
- PT407000 x8

6) **Valve, Insert Exhaust**
- PT406545 x8

7) **Spring, Valve**
- PT417519 x16

8) **Lock, Valve**
- P3142W003 x32

1) **Oil Pump**
- PT407944

2) **Oil Cooler**
- PT408482

3) **Oil Cooler Gasket**
- PT408424

1) **Water Pump**
- PT413418 [7]
- PT413421 [7]

2) **Water Pump Gasket**
- PT407626

3) **Thermostat**
- PT423566 [7]
- PT409200 [7]

1) **Repair Sleeve**
- 105RS x4

2) **BELT TENSIONER**
- PT411130 [7]

3) **Head Bolts**
- P3218A017 x10

1) **Glow Plug**
- P2666A024 24volts
- P2666A023 12volts

3) **Injector**
- PT409981 [7]
- PT409983 [7]

3) **Piston Cooling Nozzle**
- PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(3): Use with Timing cover – Rear Side PT406050
(4): Use with Timing cover – Rear Side PT405410
(5): Use with Timing Cover – Front Side PT405824
(6): Use with Timing Cover – Front Side PT406926
(7): Check application for proper usage

Engine Series:
1204E & 1204F

Engine Model:
Perkins 1204E-E44TA & 1204F-E44TTA

Engine Data:
TURBOCHARGED Tier 4 Interim

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 268.50 in3 / 4.4 Lt

Please see page **541** for a complete list of equipment models.

Basic Kit
- PBK541 [1]
- PBK542 0.50 [1]
- PBK543 1.00 [1]
- SPEC SHEET - 1204E-E44TA (MK)

Piston & Ring Kit
- PT410925 Std.
- PT400435 0.50
- PT400436 1.00

4 Per Engine

2) **Ring Set**
- PT409187 Std.
- PT418420 0.50
- PT418421 1.00

Main Bearing Set
- PT427328 Std.
- PT427325 0.25
- PT427326 0.50
- PT427322 0.75

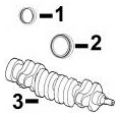
Set of 5 Pairs

Con Rod Bearing Set
- PT410927 Std.
- PT420155 0.25
- PT420154 0.50
- PT420153 0.75

Set of 4 Pairs

Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs



1) **Front Seal**
- PT406781

2) **Rear Seal**
- P2418F704

3) **Crankshaft**
- PT422325 [7]
- PT420190 [7]

1) **Top Gasket Set**
- PU5LT1204E

2) **Bottom Gasket**
- PU5LB1204E [2]

3) **Head Gasket**
- PT406619

4) **Valve Cover Gasket**
- PT400093

Exhaust Manifold Gasket
- PT407220

5) **Timing Cover Gasket - Front Side**
- PT405824 [3]
- PT406926 [4]

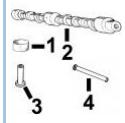
Timing Cover Gasket - Rear Side
- PT406050 [5]
- PT405410 [6]

6) **Oil Pan Gasket**
- P3681K037

1) **Bush, Con Rod**
- P3112E031 x4

2) **Bolt, Con Rod**
- PT400001 x8

3) **Conn. Rod**
- PT405102 x4 [7]



1) **Bushing, Cam**
- PT410164 x1

2) **Camshaft**
- PT408625

3) **Tappet**
- PT411902 x8

4) **Pushrod**
- P3142V011 x8

Valve Train

1) Valve, Intake
- PT406777 x8

2) Valve, Exhaust
- PT405211 x8

3) Guide, Valve (Intake & Exhaust)
- PT407959 x16

4) Seal, Valve Stem
- PT412573 x16

5) Valve, Insert Intake
- PT407000 x8

6) Valve, Insert Exhaust
- PT406545 x8

7) Spring, Valve
- PT417519 x16

8) Lock, Valve
- P3142W003 x32

1) **Oil Pump**
- PT407944

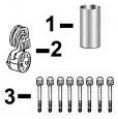
2) **Oil Cooler**
- PT408482

3) **Oil Cooler Gasket**
- PT408424

1) **Water Pump**
- PT413418 [7]
- PT413421 [7]

2) **Water Pump Gasket**
- PT407626

3) **Thermostat**
- PT423566 [7]
- PT423567 [7]
- PT409200 [7]



1) **Repair Sleeve**
- 105RS x4

2) **BELT TENSIONER**
- PT411130 [7]
- PT410698 [7]

3) **Head Bolts**
- P3218A017 x10

1) **Glow Plug**
- P2666A024 24volts
- P2666A023 12volts

3) **Injector**
- PT409980 [7]
- PT409981 [7]
- PT409983 [7]

3) **Piston Cooling Nozzle**
- PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(3): Use with Timing cover – Rear Side PT406050

(4): Use with Timing cover – Rear Side PT405410

(5): Use with Timing Cover – Front Side PT405824

(6): Use with Timing Cover – Front Side PT406926

(7): Check application for proper usage

PERKINS 1206E-E66TA (BK) (BL)

Engine Series:
1206

Engine Model:
Perkins 1206E-E66TA (BK)

Engine Data:
TURBOCHARGED Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 402.76 in3 / 6.6 Lt

Build List

BK81955
BK82197
BK8239
BK82954
BK82955
BK82970
BL51823
BL51824

Bulmor

DQ 100-120
DQ 130-150

Basic Kit
- PBK706 — 1
- PBK707 0.50 — 1
- PBK708 1.00 — 1
- SPEC SHEET - 1206E-E66TA

Piston & Ring Kit
- PT400108 Std.
- PT410926 0.50
- PT418426 1.00

6 Per Engine

2) **Ring Set**
- PT409187 Std.
- PT418420 0.50
- PT418421 1.00

Main Bearing Set
- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs

Con Rod Bearing Set
- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs

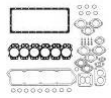
Thrust Washer Set
- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

1) **Front Seal**
- PT406781

2) **Rear Seal**
- P2418F705

3) **Crankshaft**
- PT411616 — 2



1) **Top Gasket Set**
- PU5LT1206E

2) **Bottom Gasket**
- PU5LB1206E — 2

3) **Head Gasket**
- PT416115

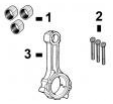
4) **Valve Cover Gasket**
- PT407192

Exhaust Manifold Gasket
- PT410538 x2

5) **Timing Cover Gasket - Front Side**
- PT405824 — 3
- PT406926 — 4

Timing Cover Gasket - Rear Side
- PT406050 — 5
- PT405410 — 6

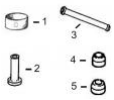
6) **Oil Pan Gasket**
- P3681K044 Upper
- P3681K041 Lower



1) **Bush, Con Rod**
- P3112E031 x6

2) **Bolt, Con Rod**
- PT400001 x12

3) **Connecting Rod**
- PT405440 — 7



1) **Bushing, Cam**
- PT410164 x1

2) **Tappet**
- PT411902 x12

3) **Pushrod**
- P3142V011 x12

5) **Camshaft**
- PT405773 — 7

Valve Train

1) Valve, Intake
- PT406777 x12

2) Valve, Exhaust
- PT405211 x12

3) Guide, Valve (Intake & Exhaust)
- PT407959 x24

4) Seal, Valve Stem
- PT412573 x24

5) Valve, Insert Intake
- PT407000 x12

6) Valve, Insert Exhaust
- PT406545 x12

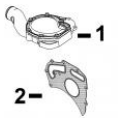
7) Spring, Valve Intake
- PT417713 x12

Spring, Valve Exhaust
- PT417519 x12

8) Lock, Valve
- P3142W003 x48

1) **Oil Pump**
- PT411864

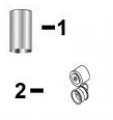
2) **Oil Cooler**
- PT417742



1) **Water Pump**
- PT413421

2) **Water Pump Gasket**
- PT407626

3) **Thermostat**
- PT423567 — 7
- PT409197 — 7
- PT414228 — 7



1) **Repair Sleeve**
- 105RS

2) **Tensioner, Belt**
- PT411130

3) **Head Bolts**
- P3218A017 x14

1) **Glow Plug**
- P2666A024 24volts — 4

3) **Injector**
- PT409982 — 7

4) **Piston Cooling Nozzle**
- PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(3): Use with Timing cover – Rear Side PT406050
(4): Use with Timing cover – Rear Side PT405410
(5): Use with Timing Cover – Front Side PT405824
(6): Use with Timing Cover – Front Side PT406926
(7): Check application for proper usage

PERKINS 3.152 FROM ESN 1935854

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
3.152	3.152 (CD)	INDIRECT INJECTION	Rope Seal from ESN 1935854	3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Massey Ferguson Agricultural		Massey Ferguson Industrial	
35	50	35 Utility 205	203

1) Engine O/H Kit
- POK302

2) Basic Engine Kit
- PBK302
- SPEC SHEET - 3.152 (CD)

Piston-Liner Kit
- PU5MK0033

Consist of:
- a) P81512 [1]
- b) P41158057
- c) P31358345 [2]

3 Per Engine

Main Bearing Set
- P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

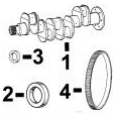
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

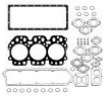


1) Front Seal
- P2415344

2) Rear Seal
- P36883106 x2

3) Crankshaft Kit
- PZZ90116

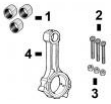
4) Ring Gear
- P0410236 115T [3]
- P31162121 126T [3]



1) Top Gasket Set
- PU5LT0012

2) Bottom Gasket
- PU5LB0012

3) Head Gasket
- P36812136

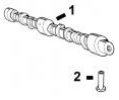


1) Bush, Con Rod
- P31134151 x3

2) Bolt, Con Rod
- P0095250 x6

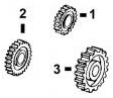
3) Nut, Con Rod
- P33221327 x6

4) Con Rod
- PZZ90011



1) Camshaft
- P31415261

2) Tappet
- P0860012



1) Crankshaft, Gear
- P0410132

2) Camshaft Gear
- P0410241

3) Idler Gear
- P31164362

Valve Train Kit
- PVTK301

1) Valve, Intake
- P31431261 x3

2) Valve, Exhaust
- P0910002 x3

3) Guide, Valve (Intake & Exhaust)
- P33261723 x6

4) Spring, Valve
a) Outer
- 4a) P0780006 x6

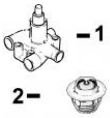
5) Lock, Valve
- P0230001 x12

1) Oil Pump
- P41314078

2) Oil Pump Drive Gear
- P41115025

3) Bushing, Drive Gear
- P0050265

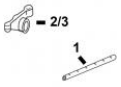
Lift Pump
- P2641408



1) Water Pump w/o Pulley
- PU5MW0023

1) Water Pump with Pulley
- P41312784

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90047

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

1) Cylinder HD with Valves
- PZZ80048

2) Heater Plug
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

(1): Flat Head Piston.(2) Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.
(3): Check Build List for proper application use

(2): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

PERKINS 3.152 TO ESN 1935853

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
3.152	3.152 (CD)	INDIRECT INJECTION	Rope Seal to ESN 1935853	3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural		Mf Industrial	
35	50	35 Utility 205	203

1) Engine O/H Kit
- POK301

2) Basic Engine Kit
- PBK301
- SPEC SHEET - 3.152 (CD)

Piston-Liner Kit
- PCK152

Consist of:
- a) P81512 1
- b) P41158057
- c) P31358308 2

3 Per Engine

Main Bearing Set
- P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

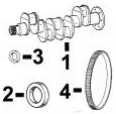
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

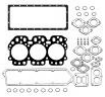


1) Front Seal
- P2415344

2) Rear Seal
- P36883106 x2

3) Crankshaft Kit
- PZZ90116

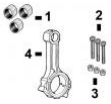
4) Ring Gear
- P0410236 115T 3
- P31162121 126T 3



1) Top Gasket Set
- PU5LT0012

2) Bottom Gasket
- PU5LB0012

3) Head Gasket
- P36812136

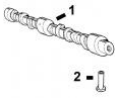


1) Bush, Con Rod
- P31134151 x3

2) Bolt, Con Rod
- P0095250 x6

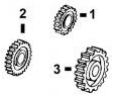
3) Nut, Con Rod
- P33221327 x6

4) Con Rod
- PZZ90011



1) Camshaft
- P31415261

2) Tappet
- P0860012



1) Crankshaft, Gear
- P0410132

2) Camshaft Gear
- P0410241

3) Idler Gear
- P31164362

Valve Train Kit
- PVTK301

1) Valve, Intake
- P31431261 x3

2) Valve, Exhaust
- P0910002 x3

3) Guide, Valve (Intake & Exhaust)
- P33261723 x6

4) Spring, Valve
a) Outer
- 4a) P0780006 x6

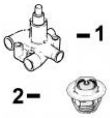
5) Lock, Valve
- P0230001 x12

1) Oil Pump
- P41314078

2) Oil Pump Drive Gear
- P41115025

3) Bushing, Drive Gear
- P0050265

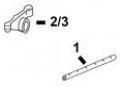
Lift Pump
- P2641408



1) Water Pump w/o Pulley
- PU5MW0023

1) Water Pump with Pulley
- P41312784

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90047

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

1) Cylinder HD with Valves
- PZZ80048

2) Heater Plug
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

(1): Flat Head Piston.(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".
(3): Check Build List for Proper Application Use

(2): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

PERKINS D3.152 TO ESN UA391044D

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Rope Seal ESN ending with D to UA391044D

Engine Info:
3 Cyl

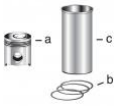
Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural
135
150
230
235

Mf Industrial
20
40
200 - Crawler
203
205
2135
2200 - Forklift & Treever
2244 - Crawler
2500 - Forklift

1) **Engine O/H Kit**
- POK303

2) **Basic Engine Kit**
- PBK303
- SPEC SHEET - D3.152 (CE)



Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 [3]

3 Per Engine

Main Bearing Set
- P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

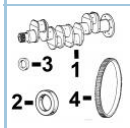
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

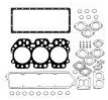


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2

3) **Crankshaft Kit**
- PZZ90116

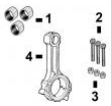
4) **Ring Gear**
- P0410236 115T [5]
- P0410264 122T [5]
- P31162121 126T [5]



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0012

3) **Head Gasket**
- P3681E006

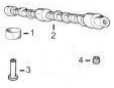


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010

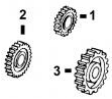


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415261

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
- PVTK302

1) **Valve, Intake**
- P31431281 x3

2) **Valve, Exhaust**
- P31431591 x3

3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x6

4) **Spring, Valve**
a) Outer
- 4a) P0780006 x6

5) **Lock, Valve**
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

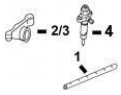
3) **Bushing, Drive Gear**
- P0050265

Lift Pump
- P2641408 [1]
- P2641A063 [2]

1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666
- P2485659



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 [4]

1) **Cylinder HD with Valves**
- PZZ80082

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [5]

4) **Insert, Valve Seat**
- P33124428 x3

(1): To Engine No: UA38571D.

(2): From Engine No: UA38572D.

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(4): Check your perkins parts catalog.

(5): Check build list for proper application use

PERKINS D3.152 FROM ESN UA391045DL

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Lip Seal
ESN ending with DL from UA391045DL

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Build List
CE31244

Landini Tractors
4500
4830

Mf Agricultural
135
230
235

Mf Industrial
20
40

1) **Engine O/H Kit**
- POK304

2) **Basic Engine Kit**
- PBK304
- SPEC SHEET - D3.152 (CE)

Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 3

3 Per Engine

Main Bearing Set
- P68084 Std. 4
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

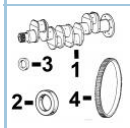
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

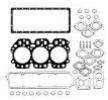


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90078

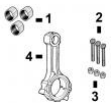
4) **Ring Gear**
- P0410236 115T 7
- P0410264 122T 7
- P31162121 126T 7



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0011

3) **Head Gasket**
- P3681E006

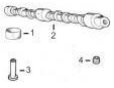


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010

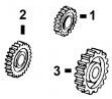


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415261

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
- PVTK303

1) **Valve, Intake**
- P31431681 x3

2) **Valve, Exhaust**
- P31431011 x3

3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x6

4) **Spring, Valve**
a) Outer
- 4a) P0780006 x6

5) **Lock, Valve**
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

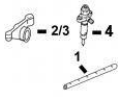
3) **Bushing, Drive Gear**
- P0050265

Lift Pump
- P2641808 2
- P2641A063 1

1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 5
- P2645732 6

1) **Cylinder HD with Valves**
- PZZ80082

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 7

4) **Insert, Valve Seat**
- P33124428 x3

(1): To Engine No: U635848G (2 Hole).

(2): From Engine No: U635849G (4 Hole)

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(4): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK304NB and nominate the bearings.

(5): Check your Perkins Parts Catalog..

(6): Used on Build list CE31075 only.

(7): Check build list for proper application use

PERKINS D3.152 TO ESN UA391044DS

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Rope Seal
To ESN
UA391044DS

Engine Info:
3 Cyl

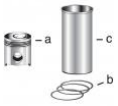
Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural
235
245

Mf Industrial
20C
30B

1) **Engine O/H Kit**
- POK305

2) **Basic Engine Kit**
- PBK305
- SPEC SHEET - D3.152 (CE)



Piston-Liner Kit
- PU5MK0117

Consist of:
- a) P89214
- b) P41158065
- c) P31358345 [3]

3 Per Engine

Main Bearing Set
- P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

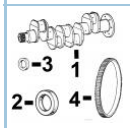
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

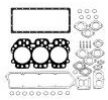


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2

3) **Crankshaft Kit**
- PZZ90116

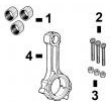
4) **Ring Gear**
- P0410236 115T [5]
- P0410264 122T [5]
- P31162121 126T [5]



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0012

3) **Head Gasket**
- P3681E006

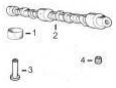


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010 [3]

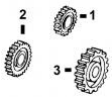


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415261

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
- PVTK303

1) **Valve, Intake**
- P31431681 x3

2) **Valve, Exhaust**
- P31431011 x3

3) **Guide, Valve (Intake & Exhaust)**
- 3) P33261723 x6

4) **Spring, Valve**
a) Outer
- 4a) P0780006 x6

5) **Lock, Valve**
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

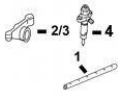
3) **Bushing, Drive Gear**
- P0050265

Lift Pump
- P2641A063 [1]
- P2641808 [2]

1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 [4]

1) **Cylinder HD with Valves**
- PZZ80082

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [5]

4) **Insert, Valve Seat**
- P33124428 x3

(1): To Engine No: U635848G (2 Hole).
(2): From Engine No: U635849G (4 Hole).
(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.
(4): Check your Perkins Parts Catalog.
(5): Check build list for proper application use

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Lip Seal

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Ingersoll Rand Compressors
Model 85 - (CE21575)
DRP 85S 85 CM - (CE22236)

Lincoln-Electric
Welder - (CE95231)

1) **Engine O/H Kit**
- POK309

2) **Basic Engine Kit**
- PBK309
- SPEC SHEET - D3.152 (CE)

Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 1

3 Per Engine

Main Bearing Set
- P68084 Std. 2
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

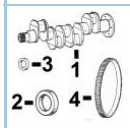
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

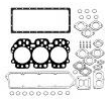


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90078 6

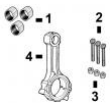
4) **Ring Gear**
- P0410236 115T 8
- P0410264 122T 8
- P31162121 126T 8



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0010

3) **Head Gasket**
- P3681E006

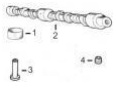


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010 3

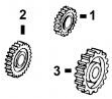


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415261

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132 6

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
- PVTK303

1) **Valve, Intake**
- P31431681 x3

2) **Valve, Exhaust**
- P31431011 x3

3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x6

4) **Spring, Valve**
a) Outer
- 4a) P0780006 x6

5) **Lock, Valve**
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

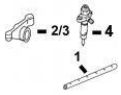
3) **Bushing, Drive Gear**
- P0050265

Lift Pump
- P2641408 4
- P2641808 5

1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 7

1) **Cylinder HD with Valves**
- PZZ80082

2) **Glowplug**
- P2666103

(Screw Fitting)

3) **Oil Pressure Switch**
- P2848062 8

4) **Insert, Valve Seat**
- P33124428 x3

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK309NB and nominate the bearings.

(3): Build CE95231 Uses PZZ90011.

(4): To Engine No: U635848G (2 Hole).

(5): From Engine No: U635849G (4 Hole).

(6): Not used on Build No: CE95231.

(7): Check your Perkins Parts Catalog..

(8): Check build list for proper application use

PERKINS D3.152 DIRECT INJECTION 2

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Lip Seal

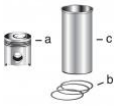
Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

MF Agricultural
135
250 - (CE22488)
150

1) **Engine O/H Kit**
- POK307/45 [1]
- POK307/35 [2]

2) **Basic Engine Kit**
- PBK307
- SPEC SHEET - D3.152 (CE)



Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 [5]

3 Per Engine

Main Bearing Set
- P68084 Std. [6]
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

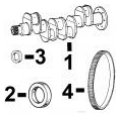
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

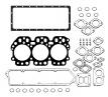


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90078

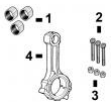
4) **Ring Gear**
- P0410236 115T [9]
- P0410264 122T [9]
- P31162121 126T [9]



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0011

3) **Head Gasket**
- P3681E006

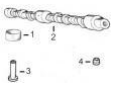


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010

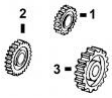


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415261

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
a) 45 b) 35
- PVTK302
- PVTK303

1) Valve, Intake
2) Valve, Exhaust
a) 45 b) 35
- 1a) P31431281 x3
- 1b) P31431681 x3
- 2a) P31431591 x3
- 2b) P31431011 x3

3) Guide, Valve (Intake & Exhaust)
- P33261723 x6

4) Spring, Valve
a) Outer
- 4a) P0780006 x6

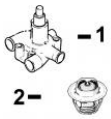
5) Lock, Valve
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

3) **Bushing, Drive Gear**
- P0050265

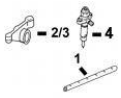
Lift Pump
- P2641A063 [3]
- P2641808 [4]



1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 [7]
- P2645732 [8]

1) **Cylinder HD with Valves**
- PZZ80082

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [9]

4) **Insert, Valve Seat**
- P33124428 x3

(1): Use with Cylnder Head PZZ80082.

(2): Use with Cylinder Head 68128.

(3): To Engine No: U635848G (2 Hole).

(4): From Engine No: U635849G (4 Hole).

(5): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(6): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK307NB and nominate the bearings.

(7): Check your Perkins Parts Catalog.

(8): Used on Build list CE31075 only.

(9): Check build list for proper application use

PERKINS D3.152 FROM ESN UA391045DSL

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Lip Seal
From ESN
UA391045DSL

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

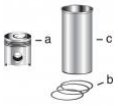
Landini Tractors
5500
5530
5530F
5830
5840

Mf Agricultural
235 - (CE22309)
235 - (CE22310)
235 - (CE22311)
245
250 - (CE31089)

Mf Industrial
20C
30B

1) **Engine O/H Kit**
- POK306

2) **Basic Engine Kit**
- PBK306
- SPEC SHEET - D3.152 (CE)



Piston-Liner Kit
- PU5MK0117

Consist of:
- a) P89214
- b) P41158065
- c) P31358345 3

3 Per Engine

Main Bearing Set
- P68084 Std. 4
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

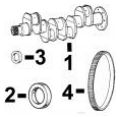
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

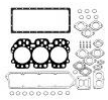


1) **Crankshaft Kit**
- PZZ90078

2) **Front Seal**
- P2415344

3) **Rear Seal**
- P2418F475

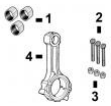
4) **Ring Gear**
- P0410236 115T 6
- P0410264 122T 6
- P31162121 126T 6



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0011

3) **Head Gasket**
- P3681E006

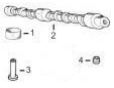


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010

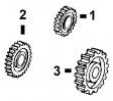


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415261

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
- PVTK303

1) **Valve, Intake**
- P31431681 x3

2) **Valve, Exhaust**
- P31431011 x3

3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x6

4) **Spring, Valve**
a) Outer
- 4a) P0780006 x6

5) **Lock, Valve**
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

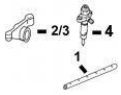
3) **Bushing, Drive Gear**
- P0050265

Lift Pump
- P2641A063 1
- P2641808 2

1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 5

1) **Cylinder HD with Valves**
- PZZ80082

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 6

4) **Insert, Valve Seat**
- P33124428 x3

(1): To Engine No: U635848G (2 Hole).

(2): From Engine No: U635849G (4 Hole).

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(4): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK306NB and nominate the bearings.

(5): Check your Perkins Parts Catalog.

(6): Check build list for proper application use

PERKINS 3.152.4 LIP SEAL

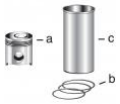
Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
3.152	3.152.4 (CM)	Lip Seal	3 Cyl	Bore: 3.6020 in / 91.491mm

Perkins
General Genset - (CM50184)

Fg-Wilson
Generator Set - (CM33513)

1) **Engine O/H Kit**
- POK310

2) **Basic Engine Kit**
- PBK310
- SPEC SHEET - 3.152.4 (CM)



Piston-Liner Kit
- PCK1524

Consist of:
- a) PU5LP0017
- b) P41158144
- c) P31358345 1

3 Per Engine

Main Bearing Set
- P68084 Std. 2
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

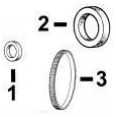
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

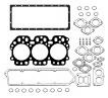
Set of 2 Pairs



1) **Front Seal**
- P2415344

2) **Rear Seal**
- P2418F475

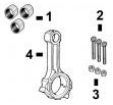
3) **Ring Gear**
- P0410236 115T 3
- P31162121 126T 3



1) **Top Gasket Set**
- PU5LT0038

2) **Bottom Gasket**
- PU5LB0010

3) **Head Gasket**
- P3681E006

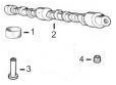


1) **Bush, Con Rod**
- P31134151 x3

2) **Bolt, Con Rod**
- P0095250 x6

3) **Nut, Con Rod**
- P33221327 x6

4) **Con Rod**
- PZZ90010

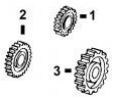


1) **Bushing, Cam**
- P31134128 x1

2) **Camshaft**
- P31415264

3) **Tappet**
- P0860012

4) **Seal, Valve**
- P2415258
- (Set of 3)



1) **Crankshaft, Gear**
- P0410132

2) **Camshaft Gear**
- P0410241

3) **Idler Gear**
- P31164362

Valve Train Kit
- PVTK305

1) **Valve, Intake**
- P31431981 x3

2) **Valve, Exhaust**
- P31431011 x3

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P33261727 x3
- 3b) P33261723 x3

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P0780007 x6
- 4b) P0780006 x6

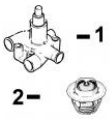
5) **Lock, Valve**
- P0230001 x12

1) **Oil Pump**
- P41314078

2) **Oil Pump Drive Gear**
- P41115025

3) **Bushing, Drive Gear**
- P0050265

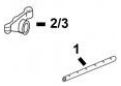
Lift Pump
- P2641808



1) **Water Pump w/o Pulley**
- PU5MW0023

1) **Water Pump with Pulley**
- P41312874

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90047

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 3

3) **Insert, Valve Seat**
- P33124428 x3

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK310NB and nominate the bearings.

(3): Check build list for proper application use

PERKINS T3.152.4 LIP SEAL

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
3.152	T3.152.4 (CN)	Lip Seal	3 Cyl	Bore: 3.6020 in / 91.491mm

Mf Agricultural

253 - (CN31219)
355 - (CN31187)
264 - (CN31214)

1) Engine O/H Kit
- POK311

2) Basic Engine Kit
- PBK311
- SPEC SHEET - T3.152.4 (CN)

Piston-Liner Kit
- PCK1524

Consist of:
- a) PU5LP0017
- b) P41158144
- c) P31358345 [1]

3 Per Engine

Main Bearing Set
- P68084 Std. [2]
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

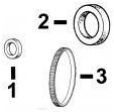
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

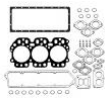
Set of 2 Pairs



1) Front Seal
- P2415344

2) Rear Seal
- P2418F475

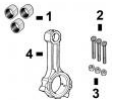
3) Ring Gear
- P0410236 115T [3]
- P31162121 126T [3]



1) Top Gasket Set
- PU5LT0080

2) Bottom Gasket
- PU5LB0011

3) Head Gasket
- P3681E006



1) Bush, Con Rod
- P31134151 x3

2) Bolt, Con Rod
- P0095250 x6

3) Nut, Con Rod
- P33221327 x6

4) Con Rod
- PZZ90010

1) Bushing, Cam
- P31134128 x1

2) Camshaft
- P31415261

3) Tappet
- P0860012

1) Camshaft Gear
- P0410241

2) Idler Gear
- P31164362

Valve Train Kit
- PVTK305

1) Valve, Intake
- P31431011 x3

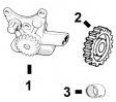
2) Valve, Exhaust
- P31431981 x3

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P33261727 x3
- 3b) P33261723 x3

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780007 x6
- 4b) P0780006 x6

5) Lock, Valve
- P0230001 x12

6) Valve Steam Seal
- 6) P2415258 x4 [3]

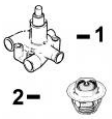


1) Oil Pump
- P41314078

2) Oil Pump Drive Gear
- P41115025

3) Bushing, Drive Gear
- P0050265

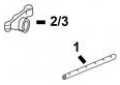
Lift Pump
- P2641808



1) Water Pump w/o Pulley
- PU5MW0023

1) Water Pump with Pulley
- P41312874

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90047

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

1) Heater Plug
- P2666108

(Bayonet Fitting)

2) Insert, Valve Seat
- P33124428 x3

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available, all of which including P31358345 are flanged
(3): Use on Intake valves.

(2): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK311NB and nominate the bearings.

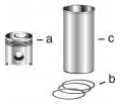
Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
3.152	G3.152 (CF)	GASOLINE ENGINE	Rope Seal	3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural		Mf Industrial	
135	150	20 2500 - Forklift	40

1) Engine O/H Kit
- POK308

2) Basic Engine Kit
- PBK308
- SPEC SHEET - G3.152 (CF)



Piston-Liner Kit
- PCK154

Consist of:
- a) P86723
- b) P41158012
- c) P31358345 [1]

3 Per Engine

Main Bearing Set
- P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030

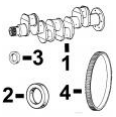
Set of 4 Pairs

Con Rod Bearing Set
- P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030

Set of 3 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

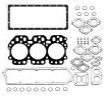


1) Front Seal
- P2415344

2) Rear Seal
- P36883106 x2

3) Crankshaft Kit
- PZZ90116

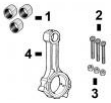
4) Ring Gear
- P0410236 115T [2]
- P31162121 126T [2]



1) Top Gasket Set
- PU5LT0037

2) Bottom Gasket
- PU5LB0012

3) Head Gasket
- P3681E006

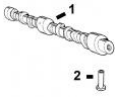


1) Bush, Con Rod
- P31134151 x3

2) Bolt, Con Rod
- P0095250 x6

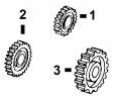
3) Nut, Con Rod
- P33221327 x6

4) Con Rod
- PZZ90011



1) Camshaft
- P31415261

2) Tappet
- P0860012



1) Crankshaft, Gear
- P0410132

2) Camshaft Gear
- P0410241

3) Idler Gear
- P31164362

Valve Train Kit
- PVTK304

1) Valve, Intake
- P31431741 x3

2) Valve, Exhaust
- P31431731 x3

3) Guide, Valve (Intake & Exhaust)
- P3313E011 x6

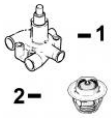
4) Spring, Valve
a) Outer
- 4a) P0780006 x6

5) Lock, Valve
- P0230001 x12

1) Oil Pump
- P41314078

2) Oil Pump Drive Gear
- P41115025

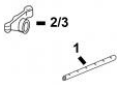
3) Bushing, Drive Gear
- P0050265



1) Water Pump w/o Pulley
- PU5MW0023

1) Water Pump with Pulley
- P41312784

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90047

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Check build list for proper application use

Engine Series:
4.108

Engine Model:
4.108 (ED)

Engine Desc:
INDUSTRIAL

Engine Data:
Rope Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.1250 in / 79.375 mm

Mustang
445 - Skid Steer

Clark Equipment
800 - Skid Steer
825 - Skid Steer

Owattona-Mfg
445 - Skid Loader (ED70035)

Gehl
4600 - Skid Steer
4625 - Skid Steer
SL4615 - Skid Steer
SL4610 - Skid Steer

Melroe
E146 - Loader (ED70075)

Vermeer-Mfg
M434-4 - Trencher (ED70077)

Sperry-New-Holland
L555 - Skid Loader (ED70077)

New-Holland
L555 - Skid Steer

Bobcat
825 - Skid Steer

1) **Engine O/H Kit**
- POK410

2) **Basic Engine Kit**
- PBK410
- SPEC SHEET - 4.108

Piston-Liner Kit
- PU5MK0118

Consist of:
- a) P69491
- b) P41158008 1
- c) P31358117

4 Per Engine

Main Bearing Set
- P84992 Std.
- P84992A 0.010
- P84992B 0.020
- P84992C 0.030

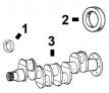
Set of 3 Pairs

Con Rod Bearing Set
- P85037 Std.
- P85037A 0.010
- P85037B 0.020
- P85037C 0.030

Set of 4 Pairs

Thrust Washer Set
- P0921120/118

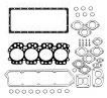
Set of 3 Pcs



1) **Front Seal**
- P2415338

2) **Rear Seal**
- P36883107 X2

3) **Crankshaft Kit**
- PZZ90160



1) **Top Gasket Set**
- P92425

2) **Bottom Gasket**
- PU5LB0013

3) **Head Gasket**
- P36812134

Bush, Con Rod
- P31134145 x4

Tappet
- P31434152

Valve Train Kit

1) Valve, Intake
- P0910060 x4

2) Valve, Exhaust
- P0910061 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3313E001 x4
- 3b) P33261723 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780143 x8
- 4b) P0780144 x8

5) Lock, Valve
- P0230001 x16

6) Seal, Valve
- P33817403 x8

Oil Pump
- P41314089 2

Lift Pump
- P2641A058

1) **Water Pump**
- PU5MW0054 2

2) **Thermostat**
- P2485666

Rocker Shaft Bush
- P0050132

Oil Pressure Switch
- P2848062 2

(1): Set of 4 Rings.

(2): Check Against Build Number.

Engine Series: 4.108
Engine Model: 4.108 (ED)
Engine Desc: MARINE
Engine Data: Rope Seal
Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.1250 in / 79.375 mm

Marine

Commercial Craft - (ED70058)
Pleasure Craft - (ED33210)
Pleasure Craft - (ED70058)
Perkins USA - (ED22195)
Pleasure Craft - (ED50033)

1) **Engine O/H Kit**
- POK411

2) **Basic Engine Kit**
- PBK411
- SPEC SHEET - 4.108

Piston-Liner Kit
- PU5MK0061

Consist of:
- a) P68383
- b) P41158087 [1]
- c) P31358117 [3]

4 Per Engine

Main Bearing Set
- P84992 Std.
- P84992A 0.010
- P84992B 0.020
- P84992C 0.030

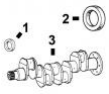
Set of 3 Pairs

Con Rod Bearing Set
- P85037 Std.
- P85037A 0.010
- P85037B 0.020
- P85037C 0.030

Set of 4 Pairs

Thrust Washer Set
- P0921120/118

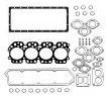
Set of 3 Pcs



1) **Front Seal**
- P0730098

2) **Rear Seal**
- P36883107 x2

3) **Crankshaft Kit**
- PZZ90160



1) **Top Gasket Set**
- P85786

2) **Bottom Gasket**
- PU5LB0013

3) **Head Gasket**
- P36812134

Bush, Con Rod
- P31134145 x4

Tappet
- P31434152

Valve Train Kit
- PVTK400

1) Valve, Intake
- P0910060 x4

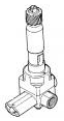
2) Valve, Exhaust
- P0910061 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3313E001 x4
- 3b) P33261723 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780143 x8
- 4b) P0780144 x8

5) Lock, Valve
- P0230001 x16

6) Seal, Valve
- P33817403 x8



Oil Pump
- P41314089 [2]

Lift Pump
- P2641A058

1) **Water Pump**
- PU5MW0054

2) **Thermostat**
- P2485608

Rocker Shaft Bush
- P0050132

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [2]

(1): Set of 5 Rings.
(2): Check Against Build Number.
(3): Semi-Finished Liner

Engine Series: 4.203

Engine Model: 4.203 (JD)

Engine Desc: INDIRECT INJECTION

Engine Data: Rope Seal
To ESN 2820092

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

MF Agricultural
65

MF Industrial
356 - Tractor Shovel

1) **Engine O/H Kit**
- POK430

2) **Basic Engine Kit**
- PBK430
- SPEC SHEET - 4.203 (JD)

Piston-Liner Kit
- PCK152

Consist of:
- a) P81512 [1]
- b) P41158057
- c) P31358308 [2]

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

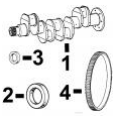
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

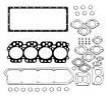


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2

3) **Crankshaft Kit**
- PZZ90121

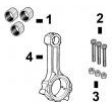
4) **Ring Gear**
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- P69036

2) **Bottom Gasket**
- PU5LB0500

3) **Head Gasket**
- P36812125



1) **Bush, Con Rod**
- P31134151 x4

2) **Bolt, Con Rod**
- P0095250 x8

3) **Nut, Con Rod**
- P33221327 x8

4) **Con Rod**
- PZZ90011

1) **Bushing, Cam**
- P31134119 x1

2) **Tappet**
- P0860012

1) **Idler Gear, Lower**
- P41115004

2) **Idler Gear, Upper**
- P41115005

Valve Train Kit
- PVTK404

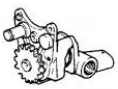
1) **Valve, Intake**
- P31431261 x4

2) **Valve, Exhaust**
- P0910002 x4

3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x8

4) **Spring, Valve a) Inner b) Outer**
- 4a) P0780007 x8
- 4b) P0780006 x8

5) **Lock, Valve**
- P0230001 x16



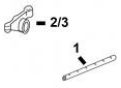
Oil Pump
- P41314164

Lift Pump
- P2641A065

1) **Water Pump w/o Pulley**
- PU5MW0061

1) **Water Pump with Pulley**
- P41312892

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90139

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

1) **Cylinder HD with Valves**
-

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [3]

(1): Flat Head Piston.

(2): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

(3): Check for proper application.

Engine Series: 4.203

Engine Model: 4.203 (JD)

Engine Desc: INDIRECT INJECTION

Engine Data: Rope Seal
From ESN 2820093

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

MF Agricultural
65

MF Industrial
356 - Tractor Shovel

1) **Engine O/H Kit**
- POK431

2) **Basic Engine Kit**
- PBK431
- SPEC SHEET - 4.203 (JD)

Piston-Liner Kit
- PU5MK0033

Consist of:
- a) P81512 [1]
- b) P41158057
- c) P31358345 [2]

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

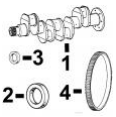
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

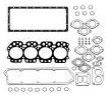


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2

3) **Crankshaft Kit**
- PZZ90121

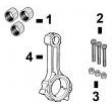
4) **Ring Gear**
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- P69036

2) **Bottom Gasket**
- PU5LB0500

3) **Head Gasket**
- P36812125



1) **Bush, Con Rod**
- P31134151 x4

2) **Bolt, Con Rod**
- P0095250 x8

3) **Nut, Con Rod**
- P33221327 x8

4) **Con Rod**
- PZZ90011

1) **Bushing, Cam**
- P31134119 x1

2) **Tappet**
- P0860012

1) **Idler Gear, Lower**
- P41115004

2) **Idler Gear, Upper**
- P41115005

Valve Train Kit
- PVTK404

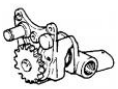
1) Valve, Intake
- P31431261 x4

2) Valve, Exhaust
- P0910002 x4

3) Guide, Valve (Intake & Exhaust)
- P33261723 x8

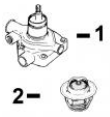
4) Spring, Valve
a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

5) Lock, Valve
- P0230001 x16



Oil Pump
- P41314164

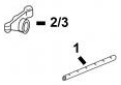
Lift Pump
- P2641A065



1) **Water Pump w/o Pulley**
- PU5MW0061

1) **Water Pump with Pulley**
- P41312892

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90139

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

1) **Cylinder HD with Valves**
-

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [3]

(1): Flat Head Piston.

(2): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(3): Check for proper application.

PERKINS 4.203 ROPE & LIP SEAL

Engine Series: 4.203

Engine Model: 4.203 (JD)

Engine Desc: INDIRECT INJECTION

Engine Data: Rope & Lip Seal (Both types included in kit)

Engine Info: 4 Cyl

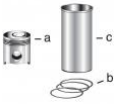
Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Clark Equipment
C60-70-80 - (JD21383)
CY30-40-55 - (JD21708)
CY40-60 - (JD22117)

Hyster
H40F - (JD20074)
H40H - (JD21708)
S60B-H60C - (JD20680)

1) Engine O/H Kit
- POK438

2) Basic Engine Kit
- PBK438
- SPEC SHEET - 4.203 (JD)



Piston-Liner Kit
- PCK152

Consist of:
- a) P81512 [1]
- b) P41158057
- c) P31358308 [2]

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

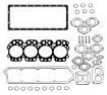
Set of 2 Pairs

1) Front Seal
- P2415344

2) Rear Seal
- P36883106 x2
- P2418F475

3) Crankshaft Kit

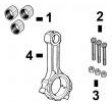
4) Ring Gear
- P0410264 122T
- P31162121 126T



1) Top Gasket Set
- P69036

2) Bottom Gasket
- PU5LB0015

3) Head Gasket
- P36812125



1) Bush, Con Rod
- P31134151 x4

2) Bolt, Con Rod
- P0095250 x8

3) Nut, Con Rod
- P33221327 x8

4) Con Rod
- PZZ90011

1) Bushing, Cam
- P31134119 x1

2) Tappet
- P0860012

1) Idler Gear, Lower
- P41115004

2) Idler Gear, Upper
- P41115005

Valve Train Kit
- PVTK404

1) Valve, Intake
- P31431261 x4

2) Valve, Exhaust
- P0910002 x4

3) Guide, Valve (Intake & Exhaust)
- P33261723 x8

4) Spring, Valve a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

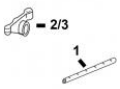
5) Lock, Valve
- P0230001 x16

Oil Pump
- P41314164

Lift Pump
- P2641336

1) Water Pump
- PU5MW0088

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90139

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

1) Cylinder HD with Valves
-

2) Heater Plug
- P2666108

(Bayonet Fitting)

3) Oil Pressure Switch
- P2848062 [4]

(1): Flat Head Piston.

(2): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

(3): Lip Seal Crankshaft from ESN U74103CL.

(4): Check for proper application.

PERKINS 4.203 LIP SEAL

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
4.203	4.203 (JD)	INDIRECT INJECTION	Lip Seal	4 Cyl

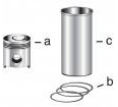
Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Allis Chalmers

40 - Forklift (JD22458)
700 - Forklift (JD22028)
ACP50D - (JD22533)
50 - Forklift (JD22458)
ACP40 - (JD22533)

1) Engine O/H Kit
- POK439

2) Basic Engine Kit
- PBK439
- SPEC SHEET - 4.203 (JD)



Piston-Liner Kit
- PU5MK0033

Consist of:
- a) P81512 3
- b) P41158057
- c) P31358345 4

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

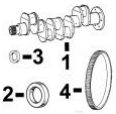
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

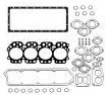


1) Front Seal
- P2415344

2) Rear Seal
- P2418F475

3) Crankshaft Kit

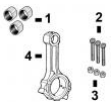
4) Ring Gear
- P0410264 122T
- P31162121 126T



1) Top Gasket Set
- P69036

2) Bottom Gasket
- PU5LB0015

3) Head Gasket
- P36812125



1) Bush, Con Rod
- P31134151 x4

2) Bolt, Con Rod
- P0095250 x8

3) Nut, Con Rod
- P33221327 x8

4) Con Rod
- PZZ90011

1) Bushing, Cam
- P31134119 x1

2) Tappet
- P0860012

1) Idler Gear, Lower
- P41115004

2) Idler Gear, Upper
- P41115005

Valve Train Kit
- PVTK404

1) Valve, Intake
- P31431261 x4

2) Valve, Exhaust
- P0910002 x4

3) Guide, Valve (Intake & Exhaust)
- P33261723 x8

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

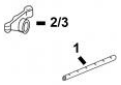
5) Lock, Valve
- P0230001 x16

Oil Pump
- P41314164

Lift Pump
- P2641A065 1
- P2641336 2

1) Water Pump
- PU5MW0088

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90139

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

1) Cylinder HD with Valves
-

2) Heater Plug
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) Oil Pressure Switch
- P2848062 5

(1): Use on Build No: JD22028.
(2): Use on Build No: JD22458/JD22533.
(3): Flat Head Piston.
(4): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.
(5): Check for proper application.

Engine Series:
4.203

Engine Model:
D4.203 (JE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Rope Seal
ESN 2939036-29C1084

Engine Info:
4 Cyl

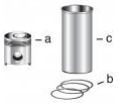
Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural
65
165
255
300 - Combine

Mf Industrial
302
304
356
3165 - Tractor Shovel

1) **Engine O/H Kit**
- POK433

2) **Basic Engine Kit**
- PBK433
- SPEC SHEET - D4.203 (JE)



Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 [1]

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

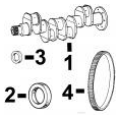
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

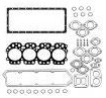


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2

3) **Crankshaft Kit**
- PZZ90121

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0069

2) **Bottom Gasket**
- P82908

3) **Head Gasket**
- P36812138

1) **Bush, Con Rod**
- P31134151 x4

2) **Bolt, Con Rod**
- P0095250 x8

3) **Nut, Con Rod**
- P33221327 x8

4) **Con Rod**
- PZZ90010

1) **Bushing, Cam**
- P31134119 x1

2) **Tappet**
- P0860012

1) **Idler Gear, Lower**
- P41115004

2) **Idler Gear, Upper**
- P41115005

Valve Train Kit
- PVTK405

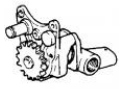
1) **Valve, Intake**
- P31431281 x4

2) **Valve, Exhaust**
- P31431591 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) P33261723 x8

4) **Spring, Valve a) Inner b) Outer**
- 4a) P0780007 x8
- 4b) P0780006 x8

5) **Lock, Valve**
- P0230001 x16



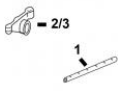
Oil Pump
- P41314164

Lift Pump
- P2641A065

1) **Water Pump w/o Pulley**
- PU5MW0061

1) **Water Pump with Pulley**
- P41312892

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90139

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 [2]

1) **Cylinder HD with Valves**
- PZZ80078

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [3]

4) **Insert, Valve Seat**
- P33124428 x4

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.
(2): Check your Perkins Parts Catalog.
(3): Check for proper application.

PERKINS D4.203 TO ESN 2939035

Engine Series:
4.203

Engine Model:
D4.203 (JE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Rope Seal
To ESN
2939035

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

MF Agricultural
65

MF Industrial
365 - Tractor Shovel

1) **Engine O/H Kit**
- POK432

2) **Basic Engine Kit**
- PBK432
- SPEC SHEET - D4.203 (JE)

Piston-Liner Kit
- PCK153

Consist of:
- a) P68332
- b) P41158057
- c) P31358308 1

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

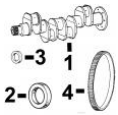
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

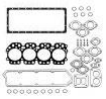


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2

3) **Crankshaft Kit**
- PZZ90121

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0069

2) **Bottom Gasket**
- P82908

3) **Head Gasket**
- P36812138

1) **Bush, Con Rod**
- P31134151 x4

2) **Bolt, Con Rod**
- P0095250 x8

3) **Nut, Con Rod**
- P33221327 x8

4) **Con Rod**
- PZZ90010

1) **Bushing, Cam**
- P31134119 x1

2) **Tappet**
- P0860012

1) **Idler Gear, Lower**
- P41115004

2) **Idler Gear, Upper**
- P41115005

Valve Train Kit
- PVTK405

1) **Valve, Intake**
- P31431281 x4

2) **Valve, Exhaust**
- P31431591 x4

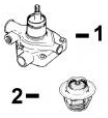
3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x8

4) **Spring, Valve a) Inner b) Outer**
- 4a) P0780007 x8
- 4b) P0780006 x8

5) **Lock, Valve**
- P0230001 x16

Oil Pump
- P41314164

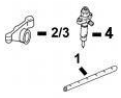
Lift Pump
- P2641A065



1) **Water Pump w/o Pulley**
- PU5MW0061

1) **Water Pump with Pulley**
- P41312892

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90139

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 2

1) **Cylinder HD with Valves**
- PZZ80078

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 3

4) **Insert, Valve Seat**
- P33124428 x4

(1): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".
(2): Check your Perkins Parts Catalog.
(3): Check for proper application.

PERKINS D4.203 FROM ESN 29C1085

Engine Series:
4.203

Engine Model:
D4.203 (JE)

Engine Desc:
DIRECT INJECTION

Engine Data:
Rope & Lip Seal
(Both types included in kit)
From ESN 29C1085

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural
65
165
255
300 - Combine

Mf Industrial
30
40B
50
302
356
3165 - Tractor Shovel

1) **Engine O/H Kit**
- POK434

2) **Basic Engine Kit**
- PBK434
- SPEC SHEET - D4.203 (JE)

Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 3

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

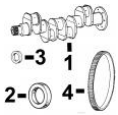
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

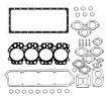


1) **Front Seal**
- P2415344

2) **Rear Seal**
- P36883106 x2
- P2418F475

3) **Crankshaft Kit**
- PZZ90121 1
- PZZ90111 2

4) **Ring Gear**
- P0410236 115T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0069

2) **Bottom Gasket**
- P82908

3) **Head Gasket**
- P36812138

1) **Bush, Con Rod**
- P31134151 x4

2) **Bolt, Con Rod**
- P0095250 x8

3) **Nut, Con Rod**
- P33221327 x8

4) **Con Rod**
- PZZ90010

1) **Bushing, Cam**
- P31134119 x1

2) **Tappet**
- P0860012

1) **Idler Gear, Lower**
- P41115004

2) **Idler Gear, Upper**
- P41115005

Valve Train Kit
- PVTK405

1) **Valve, Intake**
- P31431281 x4

2) **Valve, Exhaust**
- P31431591 x4

3) **Guide, Valve (Intake & Exhaust)**
- P33261723 x8

4) **Spring, Valve a) Inner b) Outer**
- 4a) P0780007 x8
- 4b) P0780006 x8

5) **Lock, Valve**
- P0230001 x16

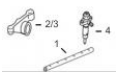
Oil Pump
- P41314164

Lift Pump
- P2641A065

1) **Water Pump w/o Pulley**
- PU5MW0061

1) **Water Pump with Pulley**
- P41312892

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90139

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

4) **Injector**
- P2645680 4

1) **Cylinder HD with Valves**
- PZZ80078

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 4

4) **Insert, Valve Seat**
- P33124428 x4

(1): Rope Seal.
(2): Lip Seal.
(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.
(4): Check your Perkins Parts Catalog.

Engine Series: 4.203

Engine Model: D4.203 (JE)

Engine Desc: DIRECT INJECTION

Engine Data: Lip Seal
To ESN U589378L

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Sullair Corp
Compressor - (JE70033)

Perkins
General Industrial - (JE33174)

1) Engine O/H Kit
- POK436

2) Basic Engine Kit
- PBK436
- SPEC SHEET - D4.203 (JE)

Piston-Liner Kit
- PU5MK0034

Consist of:
- a) P68332
- b) P41158057
- c) P31358345 1

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

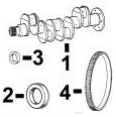
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

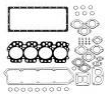


1) Front Seal
- P2415344

2) Rear Seal
- P2418F475

3) Crankshaft Kit

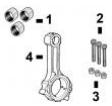
4) Ring Gear
- P0410236 115T
- P31162121 126T



1) Top Gasket Set
- PU5LT0084

2) Bottom Gasket
- PU5LB0015

3) Head Gasket
- P36812138



1) Bush, Con Rod
- P31134151 x4

2) Bolt, Con Rod
- P0095250 x8

3) Nut, Con Rod
- P33221327 x8

4) Con Rod
- PZZ90010

1) Bushing, Cam
- P31134119 x1

2) Tappet
- P0860012

1) Idler Gear, Lower
- P41115004

2) Idler Gear, Upper
- P41115005

Valve Train Kit
- PVTK420

1) Valve, Intake
- P31431681 x4

2) Valve, Exhaust
- P31431991 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P33261727 x4
- 3b) P33261723 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

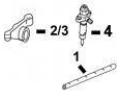
5) Lock, Valve
- P0230001 x16

Oil Pump
- P41314164

Lift Pump
- P2641A054

1) Water Pump
- PU5MW0088

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90139

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

4) Injector
- P2645680 2

Oil Pressure Switch
- P2848062 2

Insert, Valve Seat
- P33124428 x4

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Check your Perkins Parts Catalog.

Engine Series: 4.203

Engine Model: D4.203 (JE)

Engine Desc: DIRECT INJECTION

Engine Data: Lip Seal From ESN U589379L

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Sullair-Corp
Compressor - (JE33174)

Perkins
Compressor - (JE70033)

1) Engine O/H Kit
- POK437

2) Basic Engine Kit
- PBK437
- SPEC SHEET - D4.203 (JE)

Piston-Liner Kit
- PU5MK0117

Consist of:
- a) P89214
- b) P41158065
- c) P31358345 1

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

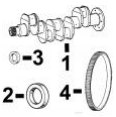
Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

Set of 2 Pairs

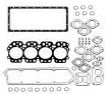


1) Front Seal
- P2415344

2) Rear Seal
- P2418F475

3) Crankshaft Kit

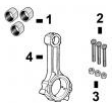
4) Ring Gear
- P0410236 115T
- P31162121 126T



1) Top Gasket Set
- PU5LT0084

2) Bottom Gasket
- PU5LB0015

3) Head Gasket
- P36812138



1) Bush, Con Rod
- P31134151 x4

2) Bolt, Con Rod
- P0095250 x8

3) Nut, Con Rod
- P33221327 x8

4) Con Rod
- PZZ90010

1) Bushing, Cam
- P31134119 x1

2) Tappet
- P0860012

1) Idler Gear, Lower
- P41115004

2) Idler Gear, Upper
- P41115005

Valve Train Kit
- PVTK420

1) Valve, Intake
- P31431681 x4

2) Valve, Exhaust
- P31431991 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P33261727 x4
- 3b) P33261723 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

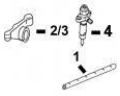
5) Lock, Valve
- P0230001 x16

Oil Pump
- P41314164

Lift Pump
- P2641A054

1) Water Pump
- PU5MW0088

2) Thermostat
- P2485666



1) Rocker Shaft
- PZZ90139

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

4) Injector
- P2645680 2

Oil Pressure Switch
- P2848062 2

Insert, Valve Seat
- P33124428 x4

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Check your Perkins Parts Catalog.

PERKINS 4.203.2 LIP SEAL

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
4.203	4.203.2 (JG)	Lip Seal	4 Cyl	Bore: 3.6020 in / 91.491mm

Clark-Equipment	Hyster	Allis-Chalmers	Caterpillar	Sperry-New-Holland
C500 (H) 60-70-80D - (JG70099) C500Y-40-560 - (JG70100) C500Y-40-560 - (JG70143)	H60-80C - (JG70040) H60-80E - (JG70113)	JCP 40-50 - Forklift(JG80031)	V40-60C - Forklift (JG70020) V/T40C - Forklift (JG70092) T40C - Forklift (JG70092) VT40C - Forklift(JG70092)	L779 - Skid Steer Loader (JG70043) L779 - Skid Steer Loader (JG70156)

1) Engine O/H Kit
- POK435

2) Basic Engine Kit
- PBK435
- SPEC SHEET - 4.203.2 (JG)

Piston-Liner Kit
- PU5MK0122

Consist of:
- a) P68801
- b) P41158007
- c) P31358345 1

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

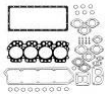
Set of 2 Pairs

1) Front Seal
- P2415344

2) Rear Seal
- P2418F475

3) Crankshaft Kit

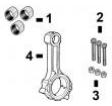
4) Ring Gear
- P0410264 122T
- P31162121 126T



1) Top Gasket Set
- PU5LT0084 3

2) Bottom Gasket
- PU5LB0015

3) Head Gasket
- P36812138

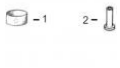


1) Bush, Con Rod
- P31134151 x4

2) Bolt, Con Rod
- P0095250 x8

3) Nut, Con Rod
- P33221327 x8

4) Con Rod
- PZZ90010



1) Bushing, Cam
- P31134119 x1

2) Tappet
- P0860012

1) Idler Gear, Lower
- P41115004

2) Idler Gear, Upper
- P41115005

Valve Train Kit
- PVTK418

1) Valve, Intake
- P31431981 x4

2) Valve, Exhaust
- P31431991 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P33261727 x4
- 3b) P33261723 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

5) Lock, Valve
- P0230001 x16

6) Valve Stem Seal
- P2415258 x4

Oil Pump
- P41314164

Lift Pump
- P2641A054

1) Water Pump
- PU5MW0088

2) Thermostat
- P2485666

1) Rocker Shaft
- PZZ90139

2) Rocker Arm LH
- P3737A101

3) Rocker Arm RH
- P3737A091

4) Heater Plug
- P2666108

(Bayonet Fitting)

Oil Pressure Switch
- P2848062 2

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.
(2): Check for proper application.
(3): Valve stem seal is not included.

PERKINS G4.203 LIP SEAL

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
4.203	G4.203 (JF)	Lip Seal	4 Cyl	Bore: 3.6020 in / 91.491mm

Eaton-Corp

Forklift - (JF22668)

1) **Engine O/H Kit**
- POK442

2) **Basic Engine Kit**
- PBK442
- SPEC SHEET - G4.203 (JF)

Piston-Liner Kit
- PCK154

Consist of:
- a) P86723
- b) P41158012
- c) P31358345 [1]

4 Per Engine

Main Bearing Set
- P68082 Std.
- P68082A 0.010
- P68082B 0.020
- P68082C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85035 Std.
- P85035A 0.010
- P85035B 0.020
- P85035C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137211/21

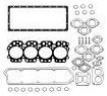
Set of 2 Pairs

1) **Front Seal**
- P2415344

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**

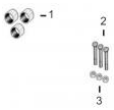
4) **Ring Gear**
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0084

2) **Bottom Gasket**
- PU5LB0015

3) **Head Gasket**
- P36812138



1) **Bush, Con Rod**
- P31134151 x4

2) **Bolt, Con Rod**
- P0095250 x8

3) **Nut, Con Rod**
- P33221327 x8

1) **Bushing, Cam**
- P31134119 x1

2) **Tappet**
- P0860012

1) **Idler Gear, Lower**
- P41115004

2) **Idler Gear, Upper**
- P41115005

Valve Train Kit
- PVTK421

1) Valve, Intake
- P31431741 x4

2) Valve, Exhaust
- P31431731 x4

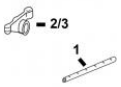
3) Guide, Valve (Intake & Exhaust)
- P3313E011 x8

4) Spring, Valve a) Inner b) Outer
- 4a) P0780007 x8
- 4b) P0780006 x8

5) Lock, Valve
- P0230001 x16

Oil Pump
- P41314164

Thermostat
- P2485666



1) **Rocker Shaft**
- PZZ90139

2) **Rocker Arm LH**
- P3737A101

3) **Rocker Arm RH**
- P3737A091

Oil Pressure Switch
- P2848062 [2]

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

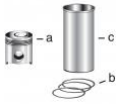
(2): Check for proper application.

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
4.236	4.212 (LA)	Rope & Lip Seal (Both types included in kit) To ESN UA187117L	4 Cyl	Bore: 3.8770 in / 98.476 mm

Mf Industrial		Landini-Tractors	Mf Agricultural
50 - (LA21243)	50B	TL120C - (LA21912)	165 - (LA)

1) Engine O/H Kit
- POK440

2) Basic Engine Kit
- PBK440
- SPEC SHEET - 4.212 (LA)



Piston-Liner Kit
- PU5MK0066

Consist of:
- a) P86721
- b) P41158044
- c) P31358394 5

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

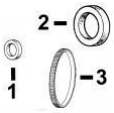
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

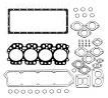
Set of 2 Pairs



1) Front Seal
- P2418F436

2) Rear Seal
- P36883108 x2
- P2418F475

3) Ring Gear
- P0410236 115T

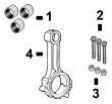


1) Top Gasket Set
- PU5LT0015

2) Bottom Gasket
- PU5LB0045

3) Head Gasket
- P36812349

4) Oil Pan Set
- PU5MK0600

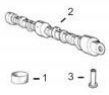


1) Bush, Con Rod
- P31134123 x4

2) Bolt, Con Rod
- P32762144 x8

3) Nut, Con Rod
- P33221328 x8

4) Con Rod
- PZZ90009



1) Bushing, Cam
- P31134132 x1

2) Camshaft
- P31415321 1
- P31415374 2

3) Tappet
- P31434163

4) Pushrod
- P31434307

1) Crankshaft Gear
- P31171681

2) Camshaft Gear
- P31171353 1

3) Idler Gear
- P41115023

Valve Train Kit
- PVTK406

1) Valve, Intake
- P31431641 x4

2) Valve, Exhaust
- P31431881 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

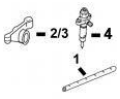
6) Seal, Valve
- P33817117 x8

Oil Pump
- P41314182 3

Lift Pump
- P2641728

1) Water Pump
- P4131A013

2) Thermostat
- P2485659



1) Rocker Shaft
- PZZ90032

2) Rocker Arm LH
- P41151483

3) Rocker Arm RH
- P41151484

4) Injector
- P2645600 6
- P2646689 6

1) Cylinder Head
- PZZ80175

2) Heater Plug
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

1) Balancer Unit
- P41733082 4

(1): To ESN U106654N.
(2): From ESN U106655N.
(3): Used on Build No: LA21194/LA21243.
(4): Used on Build No: LA21912.
(5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.
(6): Check your Perkins Parts Catalog.

PERKINS 4.236 TO ESN U106654N

Engine Series:
4.236

Engine Model:
4.236 (LD)

Engine Data:
Rope & Lip Seal To ESN U106654N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Please see page **554** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK446

2) **Basic Engine Kit**
- PBK446
- SPEC SHEET - 4.236 (LD)

Piston-Liner Kit
- PU5MK0123

Consist of:
- a) P68301
- b) P41158041
- c) P31358394 [3]

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

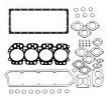
Set of 2 Pairs

1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P36883108 x2
- P2418F475

3) **Crankshaft Kit**
- PZZ90093 [4]
- PZZ90082 [5]

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0015

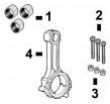
2) **Bottom Gasket**
- PU5LB0045

3) **Head Gasket**
- P36812349

4) **Valve Cover Gsk**
- P3681A027

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

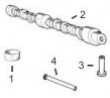


1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415321

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK406

1) **Valve, Intake**
- P31431641 x4

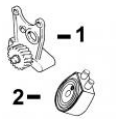
2) **Valve, Exhaust**
- P31431881 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



1) **Oil Pump**
- P41314182 [1]

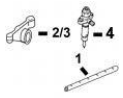
2) **Oil Cooler**
- P2486A218 [9]
- P2486A219 [9]

Lift Pump
- P2641338 [6]
- P2641728 [7]

1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485659
- P2485666

(Use on JCB)



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645664 [8]
- P2646689 [8]

1) **Cylinder Head**
- PZZ80175

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [9]

1) **Balancer Unit**
- P41733082 [2]

(1): For Non Agricultural Uses.

(2): For Agricultural Uses.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Rope seal crank used To ESN 136318L.

(5): Lip seal crank used From ESN 136319L.

(6): To Engine No: 236UA57134.

(7): From Engine No: 236UA57135.

(8): Check your Perkins Parts Catalog.

(9): Check build number for proper application.

Engine Series:
4.236

Engine Model:
4.236 (LD)

Engine Data:
Lip Seal
From ESN
U106655N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Please see page **555** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK449

2) **Basic Engine Kit**
- PBK449
- SPEC SHEET - 4.236 (LD)

Piston-Liner Kit
- PCK301

Consist of:
- a) P68301
- b) P41158041
- c) P3135X032 3

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

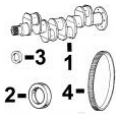
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

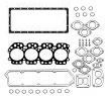


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0065

2) **Bottom Gasket**
- PU5LB0045

3) **Head Gasket**
- P3681E036

4) **Valve Cover Gsk**
- P3681A027

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415374

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353 1

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK406

1) Valve, Intake
- P31431641 x4

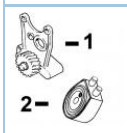
2) Valve, Exhaust
- P31431881 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



1) **Oil Pump**
- P41314182 1

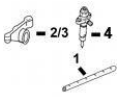
2) **Oil Cooler**
- P2486A218 5
- P2486A219 5

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485659
- P2485666

(Use on JCB)



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645664 4

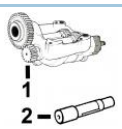
1) **Cylinder Head**
- PZZ80175

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 6



1) **Balancer Unit**
- P41733082 2

(1): For Non Agricultural Uses.
(2): For Agricultural Uses.
(3): Flanged, Semi Finished Liner available, P3135X031
(4): Check your Perkins Parts Catalog.
(5): Check build number for proper application.

Engine Series:
4.236

Engine Model:
4.236 (LD)

Engine Data:
Rope & Lip Seal
(Both types included in the kit)
To ESN U106654N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Please see page **556** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK450

2) **Basic Engine Kit**
- PBK450
- SPEC SHEET - 4.236 (LD)

Piston-Liner Kit
- PU5MK0123

Consist of:
- a) P68301
- b) P41158041
- c) P31358394 6

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

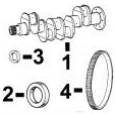
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

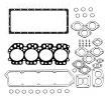


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475
- P36883108 x2

3) **Crankshaft Kit**
- PZZ90093 2
- PZZ90082 5 3

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0015

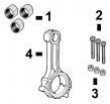
2) **Bottom Gasket**
- PU5LB0046

3) **Head Gasket**
- P36812349

4) **Valve Cover Gsk**
- P3681A027

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

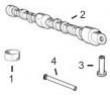


1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415292
- P31415321 5

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353 1

3) **Idler Gear**
- P41115023 1

Valve Train Kit
- PVTK413

1) Valve, Intake
- P31431315 x4

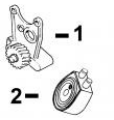
2) Valve, Exhaust
- P3142A052 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



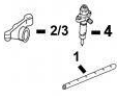
1) **Oil Pump**
- P41314182

2) **Oil Cooler**
- P2486A218 9
- P2486A219 9

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485666 7



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645664 8
- P2645666 8

1) **Cylinder Head**
- PZZ80175

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 9

1) **Balancer Unit**
- P41733082 4

(1): Check with Build List.

(2): Rope Seal Crank Used To ESN U136318L

(3): Lip Seal Crank Used From ESN U136319L

(4): Used on Build No: LD21386

(5): Used on Build No: LD22682

(6): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(7): Use P2485609 on Build LD21386

(8): Check your Perkins Parts Catalog.

(9): Check build number for proper application.

Engine Series:
4.236

Engine Model:
4.236 (LD)

Engine Data:
Lip Seal
From ESN
U106655N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Please see page **557** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK448

2) **Basic Engine Kit**
- PBK448
- SPEC SHEET - 4.236 (LD)

Piston-Liner Kit
- PCK301

Consist of:
- a) P68301
- b) P41158041
- c) P3135X032 3

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

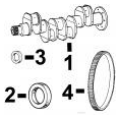
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

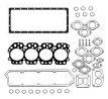


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082 1

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0065

2) **Bottom Gasket**
- PU5LB0046

3) **Head Gasket**
- P3681E036

4) **Valve Cover Gsk**
- P3681A027

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415381
- P31415374 1

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353
- P31171931 2

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK413

1) Valve, Intake
- P31431315 x4

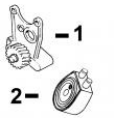
2) Valve, Exhaust
- P3142A052 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



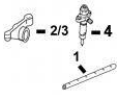
1) **Oil Pump**
- P41314182 6

2) **Oil Cooler**
- P2486A218 5
- P2486A219 5

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485666
- P2485609 2



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645664 4
- P2645666 4

1) **Cylinder Head**
- PZZ80175

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 5

1) **Balancer Unit**
- P41733082 2

(1): Used on Build No: LD22682.

(2): Used on Build No: LD21386. Front mount balancer application.

(3): Flanged, Semi Finished Liner P3135X031 and Parallel liner P31358324 are also available.

(4): Check your Perkins Parts Catalog.

(5): Check build number for proper application.

(6): Non-balancer unit engines.

Engine Series:
4.236

Engine Model:
G4.236 (LE)

Engine Desc:
GASOLINE ENGINE

Engine Data:
Lip Seal
To ESN U106654N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Caterpillar
RT - (LE70110)
T500-1500 - (LE70148)
V100-140 - (LE70089)
V80D - (LE70094)

Clark Equipment
C500-Y60 - (LE80173)
C500-Y60 - (LE22376)
C500H 60-80 - (LE70157)
C500 60-S100 CR - (LE70175)
C500-100 - (LE70185)
C500-135 - (LE70185)

Jacobsen Mfg Co
HR-15 - Turf Tractor (LE70054)
F10 - Turf Tractor (LE70054)

Eaton-Corp
Forklift - (LE80177)

1) **Engine O/H Kit**
- POK457

2) **Basic Engine Kit**
- PBK457
- SPEC SHEET - G4.236 (LE)

Piston-Liner Kit
- PCK394

Consist of:
- a) PU5LP0047
- b) P41158142
- c) P31358394 5

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

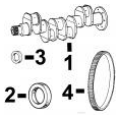
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

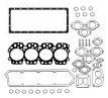


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0176

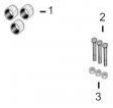
2) **Bottom Gasket**
- PU5LB0046

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E036

5) **Timing Cover Gsk**
- P3681P045 3

6) **Oil Pan Set**
- PU5MK0600



1) **Bush, Con Rod**
- P31134144 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415292

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681 1

2) **Camshaft Gear**
- P31171353
- P31171931 4

3) **Idler Gear**
- P31171951

Valve Train Kit
- PVTK412

1) **Valve, Intake**
- P31431871 x4

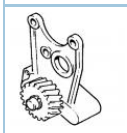
2) **Valve, Exhaust**
- P31431701 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8

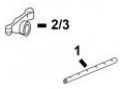


Oil Pump
- P41314182

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013 7

2) **Thermostat**
- P2485666 6



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Balancer Unit**
- P41733082 2

3) **Oil Pressure Switch**
- P2848062 7

(1): Do not Use on Build No: LE70089 or LE22376 or LE80173

(2): Use on Build No: LE22376 or LE80173

(3): Order with Kit for Build No: LE70089 or LE70094

(4): Use on Build Nos: LE70089 or LE80173 or LE22376

(5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(6): Use P2485613 on Build LE70148 and P2485609 on Build LE80173.

(7): Check for proper application.

Engine Series:
4.236

Engine Model:
G4.236 (LE)

Engine Desc:
GASOLINE ENGINE

Engine Data:
Lip Seal
From ESN U106655N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Caterpillar
RT - (LE70110)
T500-1500 - (LE70148)
V100-140 - (LE70089)
V80D - (LE70094)

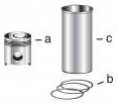
Clark Equipment
C500-Y60 - (LE80173)
C500-Y60 - (LE22376)
C500H 60-80 - (LE70157)

Eaton-Corp
Forklift - (LE80177)

Jacobsen-Mfg-Co
HR-15 Turf Tractor
H-10 Turf Tractor

1) **Engine O/H Kit**
- POK447

2) **Basic Engine Kit**
- PBK447
- SPEC SHEET - G4.236 (LE)



Piston-Liner Kit
- PCK236G

Consist of:
- a) PU5LP0047
- b) P41158142
- c) P3135X032 4

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

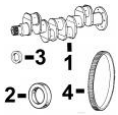
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

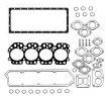


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0176

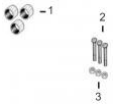
2) **Bottom Gasket**
- PU5LB0046

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E036

5) **Timing Cover Gsk**
- P3681P045 3

6) **Oil Pan Gasket**
- PU5MK0600



1) **Bush, Con Rod**
- P31134144 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415381

3) **Tappet**
- P31434163

4) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681 1

2) **Camshaft Gear**
- P31171353
- P31171931 5

3) **Idler Gear**
- P31171951

Valve Train Kit
- PVTK412

1) Valve, Intake
- P31431871 x4

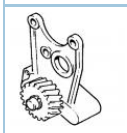
2) Valve, Exhaust
- P31431701 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8

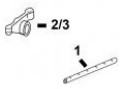


Oil Pump
- P41314182

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485666 7



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Balancer Unit**
- P41733082 2

3) **Oil Pressure Switch**
- P2848062 6

(1): Do not Use on Build No: LE70089,LE22376, and LE80173.
(2): Use on Build No: LE22376,LE80173.
(3): Order with Kit for Build No: LE70089,LE70094.
(4): Flanged, Semi Finished Liner P3135X031 are also available.
(5): Use on Build Nos: LE70089/LE80173/LE22376.
(6): Check with Build List.
(7): Use P2485613 on Build LE70148 and P2485609 on Build LE80173.

Engine Series: 4.236

Engine Model: C4.236 (LH)

Engine Desc: COMPENSATED

Engine Data: Lip Seal
To ESN U106654N

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Jcb

3CX - Backhoe (LH50133)
200 - Loader (LH50226)
200 - Loader (LH50205)

1) Engine O/H Kit
- POK452

2) Basic Engine Kit
- PBK452
- SPEC SHEET - C4.236 (LH)

Piston-Liner Kit
- PCK114

Consist of:
- a) PU5LP0011
- b) P41158147
- c) P31358394 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

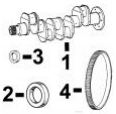
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

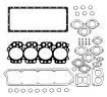


1) Front Seal
- P2418F436

2) Rear Seal
- P2418F475

3) Crankshaft Kit
- PZZ90082

4) Ring Gear
- P0410236 115T



1) Top Gasket Set
- PU5LT0176

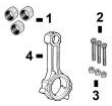
2) Bottom Gasket
- PU5LB0045

3) Valve Cover Gsk
- P3681A027

4) Head Gasket
- P3681E016

5) Timing Cover Gsk
- P3681P045

6) Oil Pan Gasket
- PU5MK0600



1) Bush, Con Rod
- P31134123 x4

2) Bolt, Con Rod
- P32762144 x8

3) Nut, Con Rod
- P33221328 x8

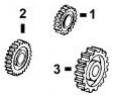
4) Con Rod
- PZZ90009

1) Bushing, Cam
- P31134132 x1

2) Camshaft
- P31415374

3) Tappet
- P31434163

4) Pushrod
- P31434307



1) Crankshaft Gear
- P31171681 1

2) Camshaft Gear
- P31171353
- P31171931 2

3) Idler Gear
- P41115023

Valve Train Kit
- PVTK413

1) Valve, Intake
- P31431315 x4

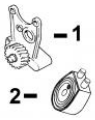
2) Valve, Exhaust
- P3142A052 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



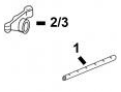
1) Oil Pump
- P41314182

2) Oil Cooler
- P2486A218 3
- P2486A219 3

Lift Pump
- P2641728

1) Water Pump
- PU5MW0108

2) Thermostat
- P2485613



1) Rocker Shaft
- PZZ90032

2) Rocker Arm LH
- P41151483

3) Rocker Arm RH
- P41151484

1) Cylinder HD with Valves
- PZZ80175

2) Heater Plug
- P2666108

3) Oil Pressure Switch
- P2848062 3

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.
(2): Use on Build No: LH50133/LH50205.
(3): Check build number for proper application.

Engine Series: 4.236

Engine Model: C4.236 (LH)

Engine Desc: COMPENSATED

Engine Data: Lip Seal
From ESN U106655N

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Jcb

3CX - Backhoe (LH50133)
200 - Loader (LH50226)
200 - Loader (LH50205)

Caterpillar

416 - Backhoe (LD70178)
426 - Backhoe (LD70179)
805 - Excavator (LD80249)
418 - Backhoe (LD70200)
428 - Backhoe (LD70201)

1) Engine O/H Kit
- POK455

2) Basic Engine Kit
- PBK455
- SPEC SHEET - C4.236 (LH)

Piston-Liner Kit
- PCK416

Consist of:
- a) PU5LP0011
- b) P41158147
- c) P3135X032 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

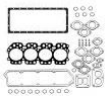
Set of 2 Pairs

1) Front Seal
- P2418F436

2) Rear Seal
- P2418F475

3) Crankshaft Kit
- PZZ90082

4) Ring Gear
- P0410236 115T



1) Top Gasket Set
- PU5LT0046

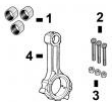
2) Bottom Gasket
- PU5LB0045

3) Valve Cover Gsk
- P3681A027

4) Head Gasket
- P3681E016

5) Timing Cover Gsk
- P3681P045

6) Oil Pan Gasket
- PU5MK0600

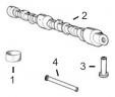


1) Bush, Con Rod
- P31134123 x4

2) Bolt, Con Rod
- P32762144 x8

3) Nut, Con Rod
- P33221328 x8

4) Con Rod
- PZZ90009

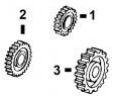


1) Bushing, Cam
- P31134132 x1

2) Camshaft
- P31415374

3) Tappet
- P31434163

4) Pushrod
- P31434307



1) Crankshaft Gear
- P31171681 1

2) Camshaft Gear
- P31171353
- P31171931 2

3) Idler Gear
- P41115023

Valve Train Kit
- PVTK413

1) Valve, Intake
- P31431315 x4

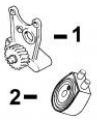
2) Valve, Exhaust
- P3142A052 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



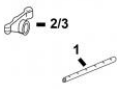
1) Oil Pump
- P41314182

2) Oil Cooler
- P2486A218 3
- P2486A219 3

Lift Pump
- P2641728

1) Water Pump
- PU5MW0108

2) Thermostat
- P2485613



1) Rocker Shaft
- PZZ90032

2) Rocker Arm LH
- P41151483

3) Rocker Arm RH
- P41151484

1) Cylinder HD with Valves
- PZZ80175

2) Heater Plug
- P2666108

Bayonet Fitting

3) Oil Pressure Switch
- P2848062 3

(1): Parallel, Semi Finished Liner P3135X031 is also available.
(2): Use on Build No: LH50133/LH50205.
(3): Check build number for proper application.

Engine Series:
4.236

Engine Model:
T4.236 (LJ)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

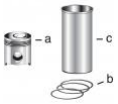
Asphalt Pavers
AP800B

Jcb
4CX - Backhoe (LJ50117)
410M - Forklift (LJ50201)
415 - Loader (LJ50224)
520S - Loadall (LJ50183)

Mf Agricultural
698 - (LJ31131)
3065 - (LJ31217)
3370 - (LJ31153)

1) **Engine O/H Kit**
- POK451

2) **Basic Engine Kit**
- PBK451
- SPEC SHEET - T4.236 (LJ)



Piston-Liner Kit
- PCK236T

Consist of:
- a) PU5LP0022
- b) P41158145
- c) P3135X032 2

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

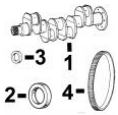
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

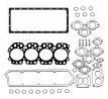


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0046

2) **Bottom Gasket**
- PU5LB0045

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E016

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134131 x4 5

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90013

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353
- P31171931 3

Valve Train Kit
- PVTK414

1) **Valve, Intake**
- P3142H002 x4

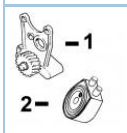
2) **Valve, Exhaust**
- P3142A052 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



1) **Oil Pump**
- P4132F012
- P4132F041 1

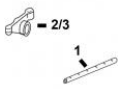
2) **Oil Cooler**
- P2486A218 4
- P2486A219 4

1) **Lift Pump**
- P2641728

2) **Turbocharger**
- P2674A108 4

1) **Water Pump**
- PU5MW0108

2) **Thermostat**
- P2485613



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Balancer Unit**
- P4111K051 1

2) **Heater Plug**
- P2666108

Bayonet Fitting

3) **Oil Pressure Switch**
- P2848062 4

(1): For Use on Agricultural Applications.

(2): Parallel, Semi Finished Liner P3135X031 is also available.

(3): Use on Build No: LJ50201.

(4): Check build number for proper application.

(5): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

Engine Series:
4.236

Engine Model:
T4.236 (LJ)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal
To ESN
U106654N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Asphalt Pavers
AP800B

Perkins
General Industrial - (LJ70128)
Genset - (LJ70130)
Genset - (LJ70151)

Sullair-Corp
Genset - (LJ70155)

1) **Engine O/H Kit**
- POK458

2) **Basic Engine Kit**
- PBK458
- SPEC SHEET - T4.236 (LJ)

Piston-Liner Kit
- PCK022

Consist of:
- a) PU5LP0022
- b) P41158145
- c) P31358394 3

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

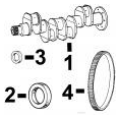
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

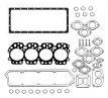


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0176

2) **Bottom Gasket**
- PU5LB0046

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P36812349

5) **Timing Cover Gsk**
- P3681P045

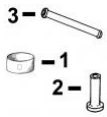
6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134131 x4 5

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90013



1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353
- P31171931 1

Valve Train Kit
- PVTK414

1) **Valve, Intake**
- P3142H002 x4

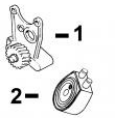
2) **Valve, Exhaust**
- P3142A052 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



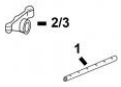
1) **Oil Pump**
- P4132F012
- P4132F041 1

2) **Oil Cooler**
- P2486A218 4
- P2486A219 4

Lift Pump
- P2641728

1) **Water Pump**
- PU5MW0108
- PU5MW0106 2

2) **Thermostat**
- P2485613



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Balancer Unit**
- P4111K051 1

2) **Heater Plug**
- P2666108

Bayonet Fitting

3) **Oil Pressure Switch**
- P2848062 4

(1): Use on Build No: LJ70128.

(2): Use on Build No: LJ70155.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Check build number for proper application.

(5): On applications using Con Rod 4115C321, order bushing P3112A006 order separately.

Engine Series:
4.236

Engine Model:
T4.236 (LJ)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal
From ESN
U106655N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Asphalt Pavers
AP800B

Perkins
General Industrial - (LJ70128)
Genset - (LJ70130)
Genset - (LJ70151)

Sullair-Corp
Genset - (LJ70155)

1) **Engine O/H Kit**
- POK456

2) **Basic Engine Kit**
- PBK456
- SPEC SHEET - T4.236 (LJ)

Piston-Liner Kit
- PCK236T

Consist of:
- a) PU5LP0022
- b) P41158145
- c) P3135X032 3

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

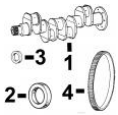
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

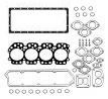


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0046

2) **Bottom Gasket**
- PU5LB0046

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E016

5) **Timing Cover Gsk**
- P3681P045

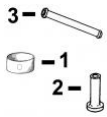
6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134131 x4 5

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90013



1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353
- P31171931 1

Valve Train Kit
- PVTK414

1) **Valve, Intake**
- P3142H002 x4

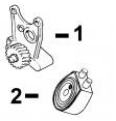
2) **Valve, Exhaust**
- P3142A052 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

6) **Seal, Valve**
- P33817117 x8



1) **Oil Pump**
- P4132F012
- P4132F041 1

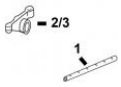
2) **Oil Cooler**
- P2486A218 4
- P2486A219 4

1) **Lift Pump**
- P2641728

2) **Turbocharger**
- P2674A108 4

1) **Water Pump**
- PU5MW0108
- PU5MW0106 2

2) **Thermostat**
- P2485613



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Balancer Unit**
- P4111K051 1

2) **Heater Plug**
- P2666108

Bayonet Fitting

3) **Oil Pressure Switch**
- P2848062 4

(1): Use on Build No: LJ70128.

(2): Use on Build No: LJ70155.

(3): Flanged, Semi Finished Liner, P3135X031 is also available.

(4): Check build number for proper application.

(5): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

Engine Series: 4.236

Engine Model: T4.236 (LJ)

Engine Desc: TURBOCHARGED

Engine Data: Lip Seal
To ESN U390301U

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Asphalt Pavers
AP800B

1) **Engine O/H Kit**
- POK453

2) **Basic Engine Kit**
- PBK453
- SPEC SHEET - T4.236 (LJ)

Piston-Liner Kit
- PCK236T

Consist of:
- a) PU5LP0022
- b) P41158145
- c) P3135X032 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

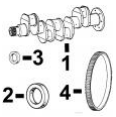
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

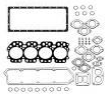


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0176

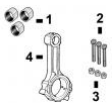
2) **Bottom Gasket**
- PU5LB0045

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E036

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600



1) **Bush, Con Rod**
- P31134131 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90013

1) **Bushing, Cam**
- P31134132 x1

2) **Tappet**
- P31434163

3) **Pushrod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK413

1) **Valve, Intake**
- P31431315 x4

2) **Valve, Exhaust**
- P3142A052 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

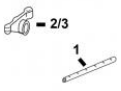
6) **Seal, Valve**
- P33817117 x8

Oil Pump
- P41314182

Lift Pump
- P2641728

1) **Water Pump**
- PU5MW0108

2) **Thermostat**
- P2485613



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

Oil Pressure Switch
- P2848062 2

(1): Flanged, Semi Finished Liner, P3135X031 is also available. **(2):** Check for proper application.

Engine Series: 4.236

Engine Model: T4.236 (LJ)

Engine Desc: TURBOCHARGED

Engine Data: Lip Seal
From ESN U390302U

Engine Info: 4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Build List
LH70202

Asphalt Pavers
AP800B

1) Engine O/H Kit
- POK454

2) Basic Engine Kit
- PBK454
- SPEC SHEET - T4.236 (LJ)

Piston-Liner Kit
- PCK236T

Consist of:
- a) PU5LP0022
- b) P41158145
- c) P3135X032 1

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

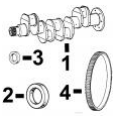
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

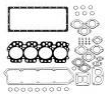


1) Front Seal
- P2418F436

2) Rear Seal
- P2418F475

3) Crankshaft Kit
- PZZ90082

4) Ring Gear
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) Top Gasket Set
- PU5LT0046

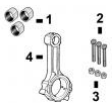
2) Bottom Gasket
- PU5LB0045

3) Valve Cover Gsk
- P3681A027

4) Head Gasket
- P3681E016

5) Timing Cover Gsk
- P3681P045

6) Oil Pan Gasket
- PU5MK0600



1) Bush, Con Rod
- P31134131 x4

2) Bolt, Con Rod
- P32762144 x8

3) Nut, Con Rod
- P33221328 x8

4) Con Rod
- PZZ90013

1) Bushing, Cam
- P31134132 x1

2) Tappet
- P31434163

3) Pushrod
- P31434307

1) Crankshaft Gear
- P31171681

2) Camshaft Gear
- P31171353

3) Idler Gear
- P41115023

Valve Train Kit
- PVTK413

1) Valve, Intake
- P31431315 x4

2) Valve, Exhaust
- P3142A052 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8

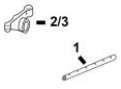
Oil Pump
- P41314182

1) Lift Pump
- P2641728

2) Turbocharger
- P2674A108 2

1) Water Pump
- PU5MW0108

2) Thermostat
- P2485613



1) Rocker Shaft
- PZZ90032

2) Rocker Arm LH
- P41151483

3) Rocker Arm RH
- P41151484

Oil Pressure Switch
- P2848062 2

(1): Flanged, Semi Finished Liner, P3135X031 is also available. **(2):** Check for proper application.

PERKINS 4.248 TO ESN UA123423L

Engine Series:
4.236

Engine Model:
4.248 (LF)

Engine Desc:
To ESN UA123423L

Engine Data:
Lip & Rope Seal
(Both rear seal types in kit)

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in / 101.054 mm

Mf Agricultural
MF275 - Tractor
MF283 - Tractor
MF285 - Tractor
MF290 - Tractor

1) **Engine O/H Kit**
- POK460

2) **Basic Engine Kit**
- PBK460
- SPEC SHEET - 4.248 (LF)

Piston-Liner Kit
- PU5MK0067

Consist of:
- a) P89207
- b) P4181A009
- c) P31358352 [1]

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

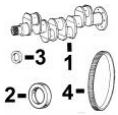
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

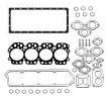


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P36883108 x2 [2]
- P2418F475 [3]

3) **Crankshaft Kit**
- PZZ90093 [2]
- PZZ90082 [3]

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0015

2) **Bottom Gasket**
- PU5LB0045

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P36812349

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415321

3) **Tappet**
- P31434163

4) **Push Rod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK406

1) **Valve, Intake**
- P31431641 x4

2) **Valve, Exhaust**
- P31431881 x4

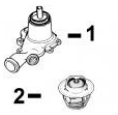
3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

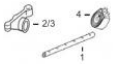
6) **Seal, Valve**
- P33817117 x8

Lift Pump
- P2641728



1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485659



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Oil Cooler**
- P2486A218 [4]
- P2486A219 [4]

1) **Cylinder HD with Valves**
- PZZ80175

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [4]

1) **Balancer Unit**
- P41733082

(1): Parallel, Finished Liner P31358343 (4.065" OD), amd Flanged, **(2):** Rope Seal.
Semi Finished Liner, P31358346, are also available.
(3): Lip Seal. **(4):** Check build number for proper application.

Engine Series:
4.236

Engine Model:
4.248 (LF)

Engine Desc:
From ESN UA123424L

Engine Data:
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in / 101.054 mm

Please see page **558** for a complete list of equipment models.

1) **Engine O/H Kit**
- POK461

2) **Basic Engine Kit**
- PBK461
- SPEC SHEET - 4.248 (LF)

Piston-Liner Kit
- PCK2481

Consist of:
- a) PU5LP0009
- b) P41158022
- c) P3135X034 5

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

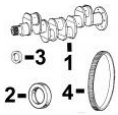
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

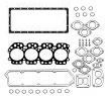


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0065

2) **Bottom Gasket**
- PU5LB0045

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E036

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415321 1
- P31415374 2

3) **Tappet**
- P31434163

4) **Push Rod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK406

1) Valve, Intake
- P31431641 x4

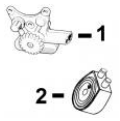
2) Valve, Exhaust
- P31431881 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



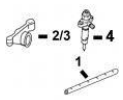
1) **Oil Pump**
- P4132F041 6

2) **Oil Cooler**
- P2486A218 8
- P2486A219 8

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013 8
- PU5MW0108 8

2) **Thermostat**
- P2485659 8
- P2485613 8



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645601 7
- P2645664 7

1) **Cylinder HD with Valves**
- PZZ80175

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 8

1) **Balancer Unit**
- P41733082 3
- P4111K051 4

(1): To ESN U108196N.
(2): From ESN U108197N.
(3): To ESN U076241N.
(4): From ESN U076242N
(5): Flanged, Semi Finished Liner, P3135X033, is also available.
(6): Used with Balancer Unit P4111K051.
(7): Check your Perkins Parts Catalog.
(8): Check build number for proper application.

PERKINS 4.248 ROPE & LIP SEAL

Engine Series:
4.236

Engine Model:
4.248 (LF)

Engine Data:
Rope & Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in / 101.054 mm

Allis Chalmers

840 - Loader (LF21617)
D175 - Tractor (LF21274)

1) **Engine O/H Kit**
- POK463

2) **Basic Engine Kit**
- PBK463
- SPEC SHEET - 4.248 (LF)

Piston-Liner Kit
- PCK2481

Consist of:
- a) PU5LP0009
- b) P41158022
- c) P3135X034 6

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

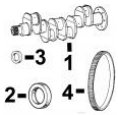
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

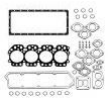


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475
- P36883108 x2

3) **Crankshaft Kit**
- PZZ90093 4
- PZZ90082 5

4) **Ring Gear**
- P0410236 115T
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0065

2) **Bottom Gasket**
- PU5LB0046

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E036

5) **Timing Cover Gsk**
- P3681P045

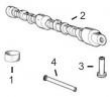
6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009



1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415321 3 1
- P31415371 3 2

3) **Tappet**
- P31434163

4) **Push Rod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353

3) **Idler Gear**
- P41115023

Valve Train Kit
- PVTK413

1) Valve, Intake
- P31431315 x4

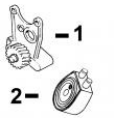
2) Valve, Exhaust
- P3142A052 x4

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

6) Seal, Valve
- P33817117 x8



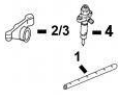
1) **Oil Pump**
- P41314182

2) **Oil Cooler**
- P2486A218 3
- P2486A219 3

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013

2) **Thermostat**
- P2485666



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645601 7
- P2645664 7

1) **Cylinder HD with Valves**
- PZZ80175

2) **Oil Pressure Switch**
- P2848062 3

(1): To ESN U108196N.
(2): From ESN U108197N.
(3): Check with Build List.
(4): To ESN U17856L.
(5): From ESN U17857L.
(6): Flanged, Semi Finished Liner, P3135X033, is also available.
(7): Check your Perkins Parts Catalog.

PERKINS 4.248.2 LIP SEAL

Engine Series:
4.236

Engine Model:
4.248.2 (LG)

Engine Data:
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in / 101.054 mm

Caterpillar

B80D - (LG70067)
B80D - (LG70090)
T80D - (LG70149)
T50-150D - (LG70109)
V60C - (LG70069)
V60C - (LG70091)

Clark Equipment

CTD20-50 - (LG70097)
CTD20-50 - (LG70106)
C500 (H) 60-80 - (LG70159)
C500Y-C60-100 - (LG70188)
C500Y C60-S100 - (LG70103)
C500Y-100-150 - (LG70104)
C500Y 110-155 - (LG70107)

Hyster

H60-80E - (LG70063)
H60-110E - (LG70127)
H60-110XL - (LG70184)

1) **Engine O/H Kit**
- POK462

2) **Basic Engine Kit**
- PBK462
- SPEC SHEET - 4.248.2 (LG)

Piston-Liner Kit
- PCK2482

Consist of:
- a) P68814
- b) P41158022
- c) P3135X034 7

4 Per Engine

Main Bearing Set
- P81558 Std.
- P81558A 0.010
- P81558B 0.020
- P81558C 0.030

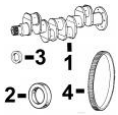
Set of 5 Pairs

Con Rod Bearing Set
- P85042 Std.
- P85042A 0.010
- P85042B 0.020
- P85042C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

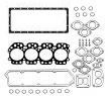


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90082

4) **Ring Gear**
- P0410264 122T
- P31162121 126T



1) **Top Gasket Set**
- PU5LT0176

2) **Bottom Gasket**
- PU5LB0046

3) **Valve Cover Gsk**
- P3681A027

4) **Head Gasket**
- P3681E036

5) **Timing Cover Gsk**
- P3681P045

6) **Oil Pan Gasket**
- PU5MK0600

1) **Bush, Con Rod**
- P31134123 x4

2) **Bolt, Con Rod**
- P32762144 x8

3) **Nut, Con Rod**
- P33221328 x8

4) **Con Rod**
- PZZ90009

1) **Bushing, Cam**
- P31134132 x1

2) **Camshaft**
- P31415292 2
- P31415381 3

3) **Tappet**
- P31434163

4) **Push Rod**
- P31434307

1) **Crankshaft Gear**
- P31171681

2) **Camshaft Gear**
- P31171353
- P31171931 6

3) **Idler Gear**
- P31171951

Valve Train Kit
- PVTK413

1) **Valve, Intake**
- P31431315 x4

2) **Valve, Exhaust**
- P3142A052 x4

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x4
- 3b) P3343J002 x4

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) **Lock, Valve**
- P33173108 x16

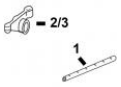
6) **Seal, Valve**
- P33817117 x8

Oil Pump
- P41314182
- P4132F041 5

Lift Pump
- P2641728

1) **Water Pump**
- P4131A013 1

2) **Thermostat**
- P2485666 8



1) **Rocker Shaft**
- PZZ90032

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Cylinder Head**
- PZZ80175

2) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 1

1) **Balancer Unit**
- P41733082 4
- P4111K051 5

(1): Check with Build List.
(2): To ESN U108196N.
(3): From ESN U108197N.
(4): Use on Build No: LG70104.
(5): Use on Build No: LG70159.
(6): Use on Build Nos: LG70067/LG70090.
(7): Flanged, Semi Finished Liner, P3135X033, is also available.
(8): Build LG70149 use P2485613, and Build LG70159, LG70104 use P2485609.

PERKINS 4.318 ROPE & LIP SEAL

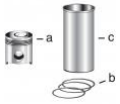
Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
4.318	4.318 (NC)	Rope & Lip Seal (Both Rear Seal Types included in Kit)	4 Cyl	Bore: 4.5005 in / 114.313 mm

Mf Agricultural

285 - (NC22089)
1085 - (NC21725)
540 - Combine (NC22699)
1080 - Tractor

1) **Engine O/H Kit**
- POK490

2) **Basic Engine Kit**
- PBK490
- SPEC SHEET - 4.318 (NC)



Piston-Liner Kit
- PCK318

Consist of:
- a) P86716
- b) P41158118
- c) P31358534

4 Per Engine

Main Bearing Set
- P68085 Std.
- P68085A 0.010
- P68085B 0.020
- P68085C 0.030

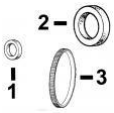
Set of 5 Pairs

Con Rod Bearing Set
- P85041 Std.
- P85041A 0.010
- P85041B 0.020
- P85041C 0.030

Set of 4 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

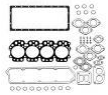
Set of 2 Pairs



1) **Front Seal**
- P2415346

2) **Rear Seal**
- P2418F475
- P36883108 x2

3) **Ring Gear**
- P0410264 122T



1) **Top Gasket Set**
- P69048

2) **Bottom Gasket**
- P68211

3) **Head Gasket**
- P36812348

Bush, Con Rod
- P0050128 x4

Valve Train Kit
- PVTK408

1) Valve, Intake
- P31431154 x4

2) Valve, Exhaust
- P31431671 x4

3) Guide, Valve (Intake & Exhaust)
- 3) P33432532 x8

4) Spring, Valve a) Inner b) Outer
- 4a) P31744131 x8
- 4b) P31745121 x8

5) Lock, Valve
- P33173108 x16

Oil Pump
- P41314113

Lift Pump
- P2641336

1) **Water Pump**
- PU5MW0009 [1]
- PU5MW0014 [2]

2) **Thermostat**
- P2485666

(1): Used on Build No: NC22089/NC22699.

(2): Used on Build No: NC21725.

PERKINS 6.354 ROPE & LIP SEAL

Engine Series:
6.354

Engine Model:
6.354 (TC)

Engine Data:
Rope & Lip Seal (Both Rear Seal Types Include in Kit)

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

MF Industrial
45B - Shovel (TC22460)

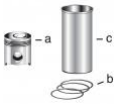
MF Agricultural
1100

Clark-Equipment
C500-CY-160-300 - (TC22266)

Hyster
H150-250 - (TC20102)

1) **Engine O/H Kit**
- POK650

2) **Basic Engine Kit**
- PBK650
- SPEC SHEET - 6.354 (TC)



Piston-Liner Kit
- PU5MK0127

Consist of:
- a) P86740
- b) P41158041
- c) P31358394 5

6 Per Engine

Main Bearing Set
- P85010 Std.
- P85010A 0.010
- P85010B 0.020
- P85010C 0.030

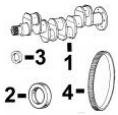
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- PW2105L 1
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

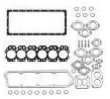


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475
- P36883108 x2

3) **Crankshaft Kit**
- PZZ90090 2

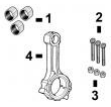
4) **Ring Gear**
- P0410264 122T 7
- P31162121 126T 7



1) **Top Gasket Set**
- PU5LT0021

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P36812548



1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Tappet**
- P31434163

2) **Push Rod**
- P31434307

3) **Camshaft Gear**
- P31171353

4) **Crankshaft Gear**
- P31171682

5) **Idler Gear**
- P41115007

6) **Camshaft**
- P3141F141

1) **Aux. Drive Shaft**
- P31173422

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171731

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Idler Gear Bush**
- P31134121

Valve Train Kit
- PVTK610

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A052 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) **Lock, Valve**
- P33173108 x24

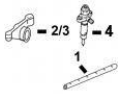
6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P41314067 3
- P41314131 3

Lift Pump
- P2641A064

1) **Water Pump**
- PU5MW0112 3

2) **Thermostat**
- P2485609



1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645595 6

1) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 7

(1): For ESN's Prior to 8504189 use Thrust Washer Set PW2105L

(2): From ESN U327089L.

(3): Check with Build List.

(4): To ESN 354UA10361.

(5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(6): Used on Build TC21192 only.

(7): Check build list for proper application use

Engine Series:
6.354

Engine Model:
6.354 (TC)

Engine Data:
Rope Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

MF Agricultural
1100

1) **Engine O/H Kit**
- POK652

2) **Basic Engine Kit**
- PBK652
- SPEC SHEET - 6.354 (TC)

Piston-Liner Kit
- PU5MK0127

Consist of:
- a) P86740
- b) P41158041
- c) P31358394 2

6 Per Engine

Main Bearing Set
- P85010 Std.
- P85010A 0.010
- P85010B 0.020
- P85010C 0.030

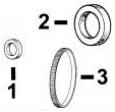
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

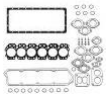
Set of 2 Pairs



1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P36883108 x2

3) **Ring Gear**
- P0410264 122T 4
- P31162121 126T 4



1) **Top Gasket Set**
- PU5LT0026

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P36812547

4) **Valve Cover Gasket**
- P36811429

5) **Rocker Box Gasket**
- P36811451

1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Tappet**
- P31434163

2) **Push Rod**
- P31434307

3) **Camshaft Gear**
- P31171353

4) **Idler Gear**
- P41115007

5) **Camshaft**
- P3141F141

1) **Aux. Drive Shaft**
- P31173422

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171731

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Idler Gear Bush**
- P31134121

Valve Train Kit
- PVTK610

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A052 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) **Lock, Valve**
- P33173108 x24

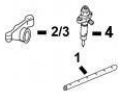
6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P41314067

Lift Pump
- P2641A064

1) **Water Pump**
- PU5MW0016

2) **Thermostat**
- P2485666
- P2485613



1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Injector**
- P2645595 3

1) **Heater Plug**
- P2666103

(Screw Fitting)
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 4

(1): From ESN 354UA10362.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(3): Used on Build TC21192 only.

(4): Check build list for proper application use

PERKINS T6.354 ROPE

Engine Series:
6.354

Engine Model:
T6.354 (TE)

Engine Desc:
TURBOCHARGE

Engine Data:
Rope Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

MF Agricultural
1130

1) **Engine O/H Kit**
- POK660

2) **Basic Engine Kit**
- PBK660
- SPEC SHEET - T6.354 (TE)

Piston-Liner Kit
- PCK354

Consist of:
- a) P86726
- b) P41158031
- c) P31358394 [2]

6 Per Engine

Main Bearing Set
- PU5MB0011 Std.
- PU5MB0011A 0.010
- PU5MB0011B 0.020
- PU5MB0011C 0.030

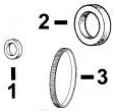
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0007 Std.
- PU5ME0007A 0.010
- PU5ME0007B 0.020
- PU5ME0007C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

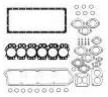
Set of 2 Pairs



1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P36883108 x2

3) **Ring Gear**
- P0410264 122T [3]
- P31162121 126T [3]

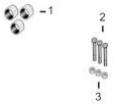


1) **Top Gasket Set**
- PU5LT0021

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P36812548

4) **Rocker Cover Gasket**
- P36811428



1) **Bush, Con Rod**
- P31134134 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

1) **Tappet**
- P31434163

2) **Push Rod**
- P31434307

3) **Idler Gear**
- P41115007

4) **Camshaft**
- P3141F141

1) **Gear & Shaft**
- P41115367
- 2) Gear
- P31171731

3) **Front Bush**
- P31134129

4) **Rear Bush**
- P2511447

5) **Seal**
- P2418F432

6) **Insert Valve Exhaust**
- P33152154 x6

7) **Insert Valve Intake**
- P33152155 x6

8) **Idler Gear Bush**
- P31134121

Valve Train Kit
- PVTK610

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A052 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) **Lock, Valve**
- P33173108 x24

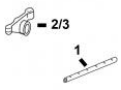
6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P41314067

Lift Pump
- P2641A064

1) **Water Pump**
- PU5MW0016 [1]

2) **Thermostat**
- P2485666
- P2485613



1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

Heater Plug
- P2666108

(Bayonet Fitting)

(1): To ESN 354UA3355T.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(3): Check build list for proper application use

Engine Series:
6.354

Engine Model:
T6.354.1 (TH) / TC6.354.1 (TT)

Engine Data:
TURBOCHARGED Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in /98.476 mm

Mf Agricultural
750
760 - (1)
1105 - (TT21724)
1130 - (4)
1135 - (TH22431)
1135 - (TH21722)

White-Farm
2-105 - (TH22282)

New-Idea
Combine - (TH22481)

1) **Engine O/H Kit**
- POK661

2) **Basic Engine Kit**
- PBK661
- SPEC SHEET - T6.354.1 (TH, TG)

Piston-Liner Kit
- PCK354

Consist of:
- a) P86726
- b) P41158031
- c) P31358394 5

6 Per Engine

Main Bearing Set
- PU5MB0011 Std.
- PU5MB0011A 0.010
- PU5MB0011B 0.020
- PU5MB0011C 0.030

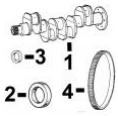
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0007 Std.
- PU5ME0007A 0.010
- PU5ME0007B 0.020
- PU5ME0007C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

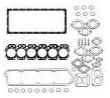


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90091

4) **Ring Gear**
- P0410264 122T 8
- P31162121 126T 8



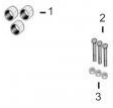
1) **Top Gasket Set**
- PU5LT0026

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P36812547

4) **Valve Cover Gasket**
- P36811429

5) **Rocker Box Gasket**
- P36811451



1) **Bush, Con Rod**
- P31134134 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

1) **Tappet**
- P31434163

2) **Push Rod**
- P31434307

3) **Camshaft Gear**
- P31171931

5) **Idler Gear**
- P41115007

1) **Aux. Drive Shaft**
- P31173422 3

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171731

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432 7

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

9) **Idler Gear Bush**
- P31134121

Valve Train Kit
- PVTK610

1) Valve, Intake
- P31431315 x6

2) Valve, Exhaust
- P3142A052 x6

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

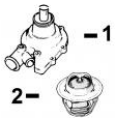
4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12

Oil Pump
- P41314067

Lift Pump
- P2641A064



1) **Water Pump**
- PU5MW0016 2

2) **Thermostat**
- P2485666 6
- P2485613

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

Heater Plug
- P2666108

(Bayonet Fitting)

(1): From ESN UA48970L.

(2): Do Not Use on Build No: TH21794.

(3): Use on Build No: TH22481.

(4): From ESN 354UA3356T.

(5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(6): Check with Build List.

(7): Do not use on Build numbers TH22431 and TH22282.

(8): Check build list for proper application use

PERKINS 6.354.1 LIP SEAL

Engine Series:
6.354

Engine Model:
6.354.1 (TG)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

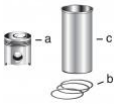
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

White-Farm
2-85 - Tractor (TG22453)

1) **Engine O/H Kit**
- POK667

2) **Basic Engine Kit**
- PBK667
- SPEC SHEET - T6.354.1 (TH, TG)



Piston-Liner Kit
- PU5MK0125

Consist of:
- a) P86745
- b) P41158032
- c) P31358394 [1]

6 Per Engine

Main Bearing Set
- PU5MB0011 Std.
- PU5MB0011A 0.010
- PU5MB0011B 0.020
- PU5MB0011C 0.030

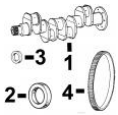
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

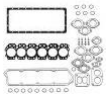


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90092

4) **Ring Gear**
- P0410264 122T [2]
- P31162121 126T [4]



1) **Top Gasket Set**
- PU5LT0026

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P36812547

5) **Valve Cover Gasket**
- P36811429

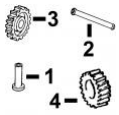
6) **Rocker Box Gasket**
- P36811451

1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009



1) **Tappet**
- P31434163

2) **Push Rod**
- P31434307

3) **Camshaft Gear**
- P31171931

4) **Idler Gear**
- P41115007

1) **Gear & Shaft**
- P41115367
- 2) Gear
- P31171731

3) **Front Bush**
- P31134129

4) **Rear Bush**
- P2511447

5) **Seal**
- P2418F432

6) **Insert Valve Exhaust**
- P33152154 x6

7) **Insert Valve Intake**
- P33152155 x6

8) **Idler Gear Bush**
- P31134121

Valve Train Kit
- PVTK616

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P31431931 x6

3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P41314067

Lift Pump
- P2641A064

1) **Water Pump**
- PU5MW0016 [1]

2) **Thermostat**
- P2485666
- P2485613

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 [2]

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(2): Check build list for proper application use

PERKINS 6.354.2 ROPE & LIP SEAL

Engine Series:
6.354

Engine Model:
6.354.2 (TJ)

Engine Desc:
TURBOCHARGE

Engine Data:
Rope & Lip Seal
Kits include both rear seals

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

White Cockshutt
7600 Combine - (TJ22189)

1) **Engine O/H Kit**
- POK668

2) **Basic Engine Kit**
- PBK668
- SPEC SHEET - 6.354.2 (TJ)

Piston-Liner Kit
- PU5MK0125

Consist of:
- a) P86745
- b) P41158032
- c) P31358394 2

6 Per Engine

Main Bearing Set
- P85010 Std.
- P85010A 0.010
- P85010B 0.020
- P85010C 0.030

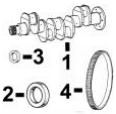
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

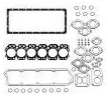


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475
- P36883108 x2

3) **Crankshaft Kit**
- PZZ90090 1

4) **Ring Gear**
- P0410264 122T 3
- P31162121 126T 3

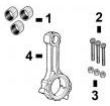


1) **Top Gasket Set**
- PU5LT0028

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P36812545

4) **Valve Cover Gasket**
- P36811451



1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Tappet**
- P31434163

2) **Push Rod**
- P31434307

3) **Camshaft Gear**
- P31171353

4) **Crankshaft Gear**
- P31171682

5) **Idler Gear**
- P41115007

1) **Aux. Drive Shaft**
- P31173422

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171731

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

9) **Idler Gear Bush**
- P31134121

Valve Train Kit
- PVTK610

1) Valve, Intake
- P31431315 x6

2) Valve, Exhaust
- P3142A052 x6

3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

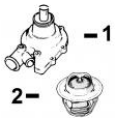
4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12

Oil Pump
- P41314067

Lift Pump
- P2641A064



1) **Water Pump**
-

2) **Thermostat**
- P2485604 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371158

(1): From ESN U12129L.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(3): Check build list for proper application use

PERKINS 6.354.4 LIP SEAL

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Clark Equipment
16000-30000 - (TW70007)
C500-160-300D - (TW70142)

Mf Agricultural
1014 - (TW31087)
TX550 - Combine (TW31015)

White-Farm
8600 - Combine (TW70114)

Perkins
General Industrial - (TW33425)

Hyster
H150-275-300D - (TW70005)

1) **Engine O/H Kit**
- POK671

2) **Basic Engine Kit**
- PBK671
- SPEC SHEET - 6.354.4 (TW)

Piston-Liner Kit
- PU5MK0127

Consist of:
- a) P86740
- b) P41158041
- c) P31358394 [3]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

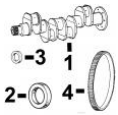
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

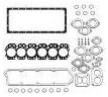


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90086

4) **Ring Gear**
- P0410264 122T [4]
- P31162121 126T [4]



1) **Top Gasket Set**
- PU5LT0017

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202

1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Camshaft Gear**
- P31171353
- P31171931 [1]

5) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK611

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A051 x6

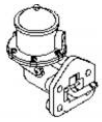
3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P4132F015



Lift Pump
- P2641729

1) **Water Pump**
- P41313027 [2]
- PU5MW0129 [2]

2) **Thermostat**
- P2485613 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371193

1) **Cylinder Head**
- PZZ80024

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [2]

(1): Use Only on Build Now: TW70014.

(2): Check with Build List.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Check build list for proper application use

PERKINS 6.354.4 LIP SEAL 2

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Clark-Equipment
45C - Shovel (TW70016)

White-Farm
8600 - Combine (TW70003)

New-Holland
Stack Cruiser - (TW70031)

1) **Engine O/H Kit**
- POK672

2) **Basic Engine Kit**
- PBK672
- SPEC SHEET - 6.354.4 (TW)

Piston-Liner Kit
- PCK619

Consist of:
- a) PU5LP0019
- b) P41158017
- c) P31358394 [3]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

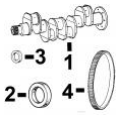
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

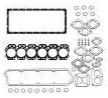


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90086

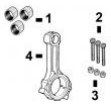
4) **Ring Gear**
- P0410264 122T [5]
- P31162121 126T [5]



1) **Top Gasket Set**
- PU5LT0017

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202



1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Camshaft Gear**
- P31171353 [4]
- P31171931 [1]

5) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK611

1) Valve, Intake
- P31431315 x6

2) Valve, Exhaust
- P3142A051 x6

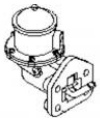
3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12

Oil Pump
- P4132F015



Lift Pump
- P2641729

1) **Water Pump**
- P41313027 [1]
- PU5MW0129 [2]

2) **Thermostat**
- P2485613 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371193

1) **Cylinder Head**
- PZZ80024

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [5]

(1): Use on Build No: TW70016.

(2): Use on Build No: TW70031 or TW70003.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Use on Build No: TW70003.

(5): Check build list for proper application use

PERKINS 6.354.4 LIP SEAL 3

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Mf Agricultural

699 - (TW31125)
2675 - (TW31008)
3090 - (TW31159)

White-Farm

2-85 Tractor - (TW70008)

1) **Engine O/H Kit**
- POK673

2) **Basic Engine Kit**
- PBK673
- SPEC SHEET - 6.354.4 (TW)

Piston-Liner Kit
- PCK619

Consist of:
- a) PU5LP0019
- b) P41158017
- c) P31358394 3

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

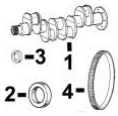
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs



1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

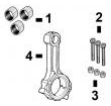
3) **Crankshaft Kit**
- PZZ90086

4) **Ring Gear**
- P0410264 122T 5
- P31162121 126T 5

1) **Top Gasket Set**
- PU5LT0033

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202



1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Camshaft Gear**
- P31171353 4
- P31171931 1

5) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423 2

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432 4

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK611

1) Valve, Intake
- P31431315 x6

2) Valve, Exhaust
- P3142A051 x6

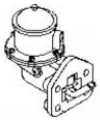
3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121 x12

5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12

Oil Pump
- P4132F015



Lift Pump
- P2641729

1) **Water Pump**
- P41313027

2) **Thermostat**
- P2485613 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371193

1) **Cylinder Head**
- PZZ80024

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 5

(1): Use Only with Build No: TW31008.

(2): Do Not Use on Build No: TW70008.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Do not use on Build TW70008.

(5): Check build list for proper application use

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

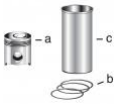
Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Marine

Pleasure Craft - (TW33196)
Pleasure Craft - (TW33197)
Commercial Craft - (TW70087)
Pleasure Craft - (TW70087)

1) **Engine O/H Kit**
- POK675

2) **Basic Engine Kit**
- PBK675
- SPEC SHEET - 6.354.4 (TW)



Piston-Liner Kit
- PU5MK0127

Consist of:
- a) P86740
- b) P41158041
- c) P31358394 1

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

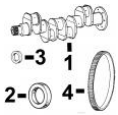
Set of 7 Pairs

Con Rod Bearing Set
- P85043 Std.
- P85043A 0.010
- P85043B 0.020
- P85043C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs



1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

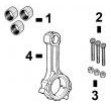
3) **Crankshaft Kit**
- PZZ90086

4) **Ring Gear**
- P0410264 122T 2
- P31162121 126T 2

1) **Top Gasket Set**
- P68243

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202



1) **Bush, Con Rod**
- P31134123 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90009

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Camshaft Gear**
- P31171353 4
- P31171931 1

5) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK617

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A051 x6

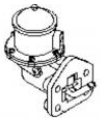
3) **Guide, Valve**
a) Intake
- 3a) P3343F002 x6

4) **Guide, Valve**
a) Exhaust
- 4a) P3343J002 x6

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P4132F015



Lift Pump
- P2641729

Thermostat
- P2485604 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371193

1) **Cylinder Head**
-

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 2

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.
(2): Check build list for proper application use.
(3): Valve springs not available.

PERKINS T6.354.4 LIP SEAL

Engine Series:
6.354

Engine Model:
T6.354.4 (TU)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

Engine Info:
6 Cyl

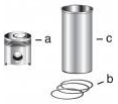
Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Mf Agricultural
560 - (TU31074)
560 - (TU31126)
660 - (TU31076)
TX750 - (TU31006)
TX850 - (TU31006)

White-Farm
8800 - Combine (TU70001)

1) **Engine O/H Kit**
- POK680

2) **Basic Engine Kit**
- PBK680
- SPEC SHEET - T6.354.4 (TU)



Piston-Liner Kit
- PU5MK0071

Consist of:
- a) P68803
- b) P41158005
- c) P31358394 [1]

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

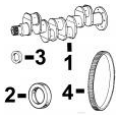
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

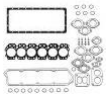


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90105

4) **Ring Gear**
- P0410264 122T [2]
- P31162121 126T [2]



1) **Top Gasket Set**
- PU5LT0018

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202

1) **Bush, Con Rod**
- P31134131 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90013

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Camshaft Gear**
- P31171931

5) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK611

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A051 x6

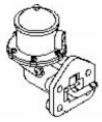
3) **Guide, Valve**
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) **Spring, Valve**
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121

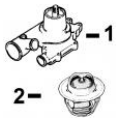
5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P4132F016



Lift Pump
- P2641729



1) **Water Pump**
- PU5MW0132

2) **Thermostat**
- P2485613 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371194

1) **Cylinder Head**
- PZZ80024

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 [2]

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(2): Check build list for proper application use

PERKINS T6.354.4 LIP SEAL 2

Engine Series:
6.354

Engine Model:
T6.354.4 (TU)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

JCB
418 - Wheel Loader

Mf Agricultural
2680 - (TU31045)
2680 - (TU31046)
2685 - (TU31045)
2685 - (TU31046)
3530 - (TU31143)
RX95 - (TU31010)

White-Farm
2-105 - (TU70018)

1) **Engine O/H Kit**
- POK681

2) **Basic Engine Kit**
- PBK681
- SPEC SHEET - T6.354.4 (TU)

Piston-Liner Kit
- PU5MK0071

Consist of:
- a) P68803
- b) P41158005
- c) P31358394 2

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

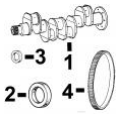
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

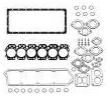


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90105

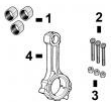
4) **Ring Gear**
- P0410264 122T 3
- P31162121 126T 3



1) **Top Gasket Set**
- PU5LT0033

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202



1) **Bush, Con Rod**
- P31134131 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90013

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK611

1) Valve, Intake
- P31431315 x6

2) Valve, Exhaust
- P3142A051 x6

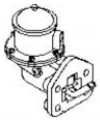
3) Guide, Valve
a) Intake b) Exhaust
- 3a) P3343F002 x6
- 3b) P3343J002 x6

4) Spring, Valve
a) Inner b) Outer
- 4a) P31744131 x12
- 4b) P31745121

5) Lock, Valve
- P33173108 x24

6) Seal, Valve
- P33817117 x12

Oil Pump
- P4132F016



Lift Pump
- P2641729

1) **Water Pump**
- P41313027 1

2) **Thermostat**
- P2485613 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371194

1) **Cylinder Head**
- PZZ80024

2) **Heater Plug**
- P2666108

(Bayonet Fitting)

3) **Oil Pressure Switch**
- P2848062 3

(1): Use Only on Build No: TU31143 or TU70018.(2) Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.(3) Check build list for proper application use.
(3): Check build list for proper application use.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.(3) Check build list for proper application use.

Engine Series:
6.354

Engine Model:
T6.354.4 (TU)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

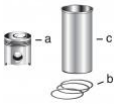
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Marine
Pleasure Craft - (TU33203)
Pleasure Craft - (TU70025)
Pleasure Craft - (TU70027)

1) **Engine O/H Kit**
- POK682

2) **Basic Engine Kit**
- PBK682
- SPEC SHEET - T6.354.4 (TU)



Piston-Liner Kit
- PU5MK0071

Consist of:
- a) P68803
- b) P41158005
- c) P31358394 1

6 Per Engine

Main Bearing Set
- PU5MB0030 Std.
- PU5MB0030A 0.010
- PU5MB0030B 0.020
- PU5MB0030C 0.030

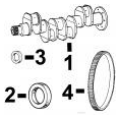
Set of 7 Pairs

Con Rod Bearing Set
- PU5ME0003 Std.
- PU5ME0003A 0.010
- PU5ME0003B 0.020
- PU5ME0003C 0.030

Set of 6 Pairs

Thrust Washer Set
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

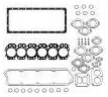


1) **Front Seal**
- P2418F436

2) **Rear Seal**
- P2418F475

3) **Crankshaft Kit**
- PZZ90105

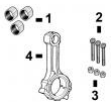
4) **Ring Gear**
- P0410264 122T 2
- P31162121 126T 2



1) **Top Gasket Set**
- P68243

2) **Bottom Gasket**
- PU5LB0056

3) **Head Gasket**
- P3681H202



1) **Bush, Con Rod**
- P31134131 x6

2) **Bolt, Con Rod**
- P32762144 x12

3) **Nut, Con Rod**
- P33221328 x12

4) **Con Rod**
- PZZ90013

1) **Camshaft**
- P31416303

2) **Tappet**
- P31434163

3) **Push Rod**
- P31434307

4) **Camshaft Gear**
- P31171931

5) **Crankshaft Gear**
- P31171682

1) **Aux. Drive Shaft**
- P31173423

2) **Gear & Shaft**
- P41115367
- 3) Gear
- P31171733

4) **Front Bush**
- P31134129

5) **Rear Bush**
- P2511447

6) **Seal**
- P2418F432

7) **Insert Valve Exhaust**
- P33152154 x6

8) **Insert Valve Intake**
- P33152155 x6

Valve Train Kit
- PVTK617

1) **Valve, Intake**
- P31431315 x6

2) **Valve, Exhaust**
- P3142A051 x6

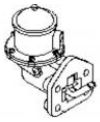
3) **Guide, Valve**
a) Intake
- 3a) P3343F002 x6

4) **Spring, Valve**
a) Exhaust
- 4a) P3343J002 x6

5) **Lock, Valve**
- P33173108 x24

6) **Seal, Valve**
- P33817117 x12

Oil Pump
- P4132F016



Lift Pump
- P2641729

Thermostat
- P2485604 x2

1) **Rocker Shaft**
-

2) **Rocker Arm LH**
- P41151483

3) **Rocker Arm RH**
- P41151484

4) **Relief Valve**
- P41371194

1) **Heater Plug**
- P2666108

(Bayonet Fitting)

2) **Oil Pressure Switch**
- P2848062 2

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.(2) Check build list for proper application use.(3) Valve springs not

Engine Model:
3013C (C1.5)

Engine Desc:
NATURALLY ASPIRATED

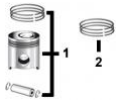
Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.5 in / 90.00 mm
Displacement: 91 in3 / 1.496 Lt

Please see page **559** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK525 Std.
- BOK526 0.50

2) **Basic Engine Kit**
- BBK525 Std.
- BBK526 0.50
- Spec Sheet - 3024C



1) **Piston & Ring Kit**
- B293-5884 Std.
- B293-5884B 0.50

3 Per Engine

2) **Ring Set**
- B154-0943 Std.
- B154-0943B 0.50

Main Bearing Set
- B156-6977 Std.
- B161-2628 0.010
- B161-2629 0.020

Set of 3 Pairs

Con Rod Bearing Set
- B156-6978 Std.
- B161-2630 0.010
- B161-2631 0.020

Set of 3 Pairs

1) **Thrust Washer**
- B154-1231 Std.

Set of 2 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

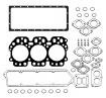
2) **Rear Seal**
- B156-6973

3) **Crankshaft**
- B235-6967

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518

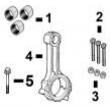
6) **Flywheel Ring Gear**
- B156-6960 109T
- B154-2405 126T



1) **O/H Gasket Set**
- B155-8078 2

2) **Cylinder HD Gsk**
- B218-8537 1

3) **Oil Pan Gasket**
- B215-2604



1) **Bush, Con Rod**
- B154-0869 x3

2) **Bolt, Con Rod**
- B154-0870 x6

3) **Nut, Con Rod**
- B154-0871 x6

4) **Connecting Rod**
- B156-6980

5) **Head Bolt**
- B156-6988 x11
- B156-6989 x3

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x3

2) **Seal, Valve Ex**
- B153-5554 x3

Valve Train Kit
- BVTK559

1) **Valve, Intake**
- B156-6985 x3

2) **Valve, Exhaust**
- B156-6986 x3

3) **Spring, Valve**
- B190-3748 x6

4) **Retainer, Valve Spring**
- B153-5557 x6

5) **Lock, Valve**
- B153-5556 x12

1) **Oil Pump**
- B297-3050
- B339-3017

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B251-7660

3) **Atomiser**
- B252-1446

4) **Fuel Water Separator**
- B276-1804

1) **Water Pump**
- B311-0053

2) **Gasket, W Pump**
- B303-0307

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- B431-5040UF 3
- B540-0594UF 4

Glowplug
- B172-4585 x3

(1): 1.4mm Thickness.

(2): If ordering for tier 3 engine that has a 2 bolt auxiliary drive front cover, also orde

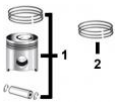
(3): Use with engines that are turbocharged and/or have an oil cooler

(4): Use with engines that are non-turbo

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3013C (C1.7)	NATURALLY ASPIRATED	C1.7	3 Cyl	Bore: 3.3 in / 84.00 mm Stroke: 3.9 in / 100.00 mm Displacement: 101.4 in3 / 1.662 Lt

1) Engine O/H Kit
- BOK540 Std.
- BOK541 0.50

2) Basic Engine Kit
- BBK540 Std.
- BBK541 0.50
- Spec Sheet - 3024C



1) Piston & Ring Kit
- B297-3080 Std.
- B297-3080B 0.50

3 Per Engine

2) Ring Set
- B154-0943 Std.
- B154-0943B 0.50

Main Bearing Set
- B156-6977 Std.
- B161-2628 0.010
- B161-2629 0.020

Set of 3 Pairs

Con Rod Bearing Set
- B156-6978 Std.
- B161-2630 0.010
- B161-2631 0.020

Set of 3 Pairs

1) Thrust Washer
- B154-1231 Std.

Set of 2 Pcs

2) Crank Bushing
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

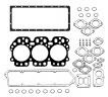
1) Front Seal
- B154-1675

2) Rear Seal
- B154-0178

3) Crankshaft Gear
- B308-1853

4) Key, Crank Gear
- B153-5518

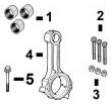
5) Flywheel Ring Gear
- B156-6960 109T
- B154-2405 126T



1) O/H Gasket Set
- B155-8078 3

2) Cylinder HD Gsk
- B218-8537 1

3) Oil Pan Gasket
- B215-2604



1) Bush, Con Rod
- B154-0869 x3

2) Bolt, Con Rod
- B154-0870 x6

3) Nut, Con Rod
- B154-0871 x6

4) Connecting Rod
- B154-0867

5) Head Bolt
- B156-6988 x11
- B156-6989 x3

1) Tappet
- B154-1249

1) Seal, Valve Intake
- B153-5559 x3

2) Seal, Valve Ex
- B153-5554 x3

Valve Train Kit
- BVTK560

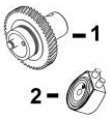
1) Valve, Intake
- B156-6985 x3

2) Valve, Exhaust
- B156-6986 x3

3) Spring, Valve
- B153-5558 x6

4) Retainer, Valve Spring
- B153-5557 x6

5) Lock, Valve
- B153-5556 x12



1) Oil Pump
- B297-3050
- B339-3017

2) Oil Cooler
- B245-1361

1) Lift Pump
- B176-7712

2) Thermostat
- B251-7660

3) Atomiser
- B252-1446

1) Water Pump
- B311-0053 2
- B439-4992 2

2) Gasket, W Pump
- B303-0307

Repair Sleeve
- 84RS

Glowplug
- B172-4585 x3

(1): 1.4mm Thickness.
(2): Check Application for proper use.
(3): If ordering for tier 3 engine that has a

Engine Model: 3014

Engine Desc: NATURALLY ASPIRATED

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.3 in / 84.00 mm Stroke: 3.54 in / 90.00 mm Displacement: 122 in3 / 1.995 Lt

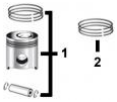
Engine Arrangement

140-3556 196-0205

Vibratory Compactors

CB-334D CB-335D

Basic Engine Kit
- BBK3014 Std
- BBK3015 0.50
- Spec Sheet - 3024C



1) **Piston & Ring Kit**
- B293-5884 Std.
- B293-5884B 0.50

4 Per Engine

2) **Ring Set**
- B154-0943 Std. 1
- B154-0943B 0.50 1

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs

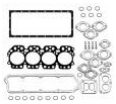
1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

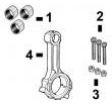
2) **Rear Seal**
- B156-6973



1) **O/H Gasket Set**
- B3014OG

2) **Head Gasket**
- B160-3532

3) **Oil Pan Gasket**
- B215-2605



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Con Rod**
- B156-6980

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x4

2) **Seal, Valve Ex**
- B153-5554 x4

Valve Train Kit

1) **Valve, Intake**
2) **Valve, Exhaust**

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**

5) **Lock, Valve**
- B153-5556 x16

1) **Oil Pump**
- B297-3050

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B251-7660

3) **Atomiser**
- B252-1446

1) **Water Pump**
- B311-0053

2) **Gasket, W Pump**
- B303-0307

Repair Sleeve
- 84RS

1) **Glowplug**
- B172-4585 x4

2) **Oil Pressure Switch**
- B153-6617

3) **Water Temp Sensor**
- B176-7705

(1): Contains 3MM wide oil control ring

(2): Under develoment, not included in Valve Train Kit.

(3): Not included in Valve Train Kit.

Engine Model:
3024/C

Engine Desc:
NATURALLY ASPIRATED

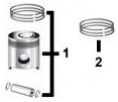
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134 in3 /2.216 Lt

Please see page **560** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK536 Std.
- BOK537 0.50

2) **Basic Engine Kit**
- BBK536 Std.
- BBK537 0.50
- Spec Sheet - 3024C



1) **Piston & Ring Kit**
- B297-3080 Std.
- B297-3080B 0.50

4 Per Engine

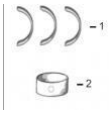
2) **Ring Set**
- B154-0943 Std.
- B154-0943B 0.50

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs



1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

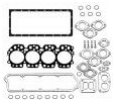
2) **Rear Seal**
- B154-0178

3) **Crankshaft**
- B308-1852 1

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518

6) **Flywheel Ring Gear**
- B154-2405 126T



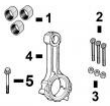
1) **O/H Gasket Set**
- B164-8900 2

2) **Cylinder HD Gsk**
- B311-1685

3) **Seal Rocker**
- B217-2752

4) **Seal, Cyl HD Cov**
- B233-0695

5) **Oil Pan Gasket**
- B215-2605



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Connecting Rod**
- B154-0867

5) **Head Bolt**
- B156-6988 x14
- B156-6989 x4

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x4

2) **Seal, Valve Ex**
- B153-5554 x4

Valve Train Kit
- BVTK558

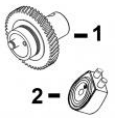
1) **Valve, Intake**
- B154-0888 x4

2) **Valve, Exhaust**
- B154-0889 x4

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**
- B153-5557 x8

5) **Lock, Valve**
- B153-5556 x16



1) **Oil Pump**
- B297-3050

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B251-7660

3) **Atomiser**
- B252-1446

4) **Fuel Water Separator**
- B276-1804

1) **Water Pump**
- B311-0053

2) **Gasket, W Pump**
- B303-0307

1) **Glow Plug**
- B172-4585 x4

2) **Cylinder Head**
- B217-1481UF 3

3) **Repair Sleeve**
- 84RS

Fuel Lines
- 1) B217-2760
- 2) B217-2761
- 3) B217-2762
- 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853,(.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(2): Does not include Crankshaft Oil Seals
(3): Bare head. Check application for proper usage.

Engine Model:
3024C/T

Engine Desc:
TURBOCHARGE

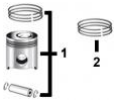
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134 in3/ 2.216 Lt

Please see page **561** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK538 Std.
- BOK539 0.50

2) **Basic Engine Kit**
- BBK538 Std.
- BBK539 0.50
- Spec Sheet - 3024C



1) **Piston & Ring Kit**
- B270-6968 Std.
- B270-6968B 0.50

4 Per Engine

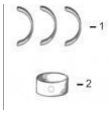
2) **Ring Set**
- B270-6970 Std.
- B270-6970B 0.50

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs



1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

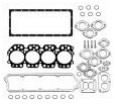
2) **Rear Seal**
- B154-0178

3) **Crankshaft**
- B308-1852 1

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518

6) **Flywheel Ring Gear**
- B154-2405 126T



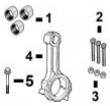
1) **O/H Gasket Set**
- B3024TOG 4

2) **Cylinder HD Gsk**
- B311-1685

3) **Seal Rocker**
- B217-2752

4) **Seal, Cyl HD Cov**
- B233-0695

5) **Oil Pan Gasket**
- B215-2605



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Connecting Rod**
- B154-0867

5) **Head Bolt**
- B156-6988 x14
- B156-6989 x4

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x4

2) **Seal, Valve Ex**
- B153-5554 x4

Valve Train Kit
- BVTK558

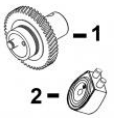
1) **Valve, Intake**
- B154-0888 x4

2) **Valve, Exhaust**
- B154-0889 x4

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**
- B153-5557 x8 2

5) **Lock, Valve**
- B153-5556 x16



1) **Oil Pump**
- B297-3050

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B251-7660 3
- B249-5541 3

3) **Atomiser**
- B252-1446

4) **Fuel Water Separator**
- B276-1804

1) **Water Pump**
- B311-0053

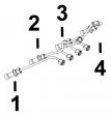
2) **Gasket, W Pump**
- B303-0307

1) **Glowplug**
- B172-4585 x4
-

Repair Sleeve
- 1) 84RS

2) **Turbocharger**
- B238-9349 3

3) **Cylinder Head**
- B236-5127UF



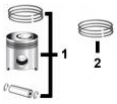
Fuel Lines
- 1) B217-2760
- 2) B217-2761
- 3) B217-2762
- 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853,(.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(2): Not included in valve train kit.
(3): Check application for proper usage.
(4): Does not include Crankshaft Oil Seals

Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
3034C	NATURALLY ASPIRATED DIRECT INJECTION	4 Cyl	Bore: 97.00 mm Stroke: 100.00 mm

Please see page **562** for a complete list of equipment models.

Basic Engine Kit
- BBK3034 Std.
- BBK3035 0.50
- Spec Sheet - 3034



1) **Piston & Ring Kit**
- B212-3677 Std.
- B212-3678 0.50

4 Per Engine

2) **Ring Set**
- B153-1029 Std.
- B171-4662 0.50

Main Bearing Set
- B152-6791 Std.
- B152-6792 .25
- B152-6793 .50
- B152-6794 .75

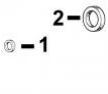
Set of 5 Pairs

Con Rod Bearing Set
- B173-1272 Std.
- B173-1273 .25
- B173-1274 .50
- B173-1275 .75

Set of 4 Pairs

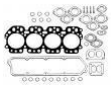
Thrust Washer
- B152-6799

Set of 2 Pcs



1) **Front Seal**
- B152-6739

2) **Rear Seal**
- B152-6556

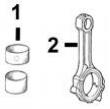


1) **Head Gasket Set**
- B153-1217

2) **Lower Gasket Set**
- B173-1339

3) **Cylinder Head Gasket**
- B152-9864

4) **Oil Pan Gasket**
- B202-0920



1) **Bush, Con Rod**
- B188-8543 x4

2) **Connecting Rod**
- B201-9885 2

3) **Rod Capscrew**
- B201-9887 2

1) **Tappet**
- B176-0633 x8

Valve Train

1) **Valve, Intake**
- B188-8640 x4

2) **Valve, Exhaust**
- B152-9857 x4

3) **Guide, Valve**
- B188-8633 x8

4) **Spring, Valve**
- B152-9858 x8

5) **Lock, Valve**
- B152-9860 x16

6) **Seal, Valve**
- B192-6335 x8

1) **Oil Pump**
- B173-0141

2) **Oil Cooler**
- B245-1361

3) **Fuel Transfer Pump**
- B153-0488

1) **Water Pump**
- B153-0164

2) **Thermostat**
- B251-9336

Glowplug
- B177-7559 x4

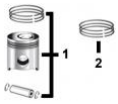
(1): Check application for proper use

(2): Fractured style rod cap

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3034T	Turbocharged	TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 97.00 mm Stroke: 100.00 mm

Engine Arrangement		Multi Terrain Loader		Skid Steer	
147-1234	159-9214	267	277	236	252
		287		246	262
				248	

Basic Engine Kit
- BBK3036 Std.
- BBK3037 0.50
- Spec Sheet - 3034



1) **Piston & Ring Kit**
- B173-1263 Std.
- B173-1263B 0.50

4 Per Engine

2) **Ring Set**
- B153-1029 Std.
- B171-4662 0.50

Main Bearing Set
- B152-6791 Std.
- B152-6792 .25
- B152-6793 .50
- B152-6794 .75

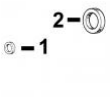
Set of 5 Pairs

Con Rod Bearing Set
- B173-1272 Std.
- B173-1273 .25
- B173-1274 .50
- B173-1275 .75

Set of 4 Pairs

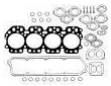
Thrust Washer
- B152-6799

Set of 2 Pcs



1) **Front Seal**
- B152-6739

2) **Rear Seal**
- B152-6556

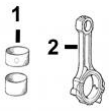


1) **Head Gasket Set**
- B173-1340

2) **Lower Gasket Set**
- B173-1339

3) **Cylinder Head Gasket**
- B152-9864

4) **Oil Pan Gasket**
- B202-0920



1) **Bush, Con Rod**
- B188-8543 x4

2) **Connecting Rod**
- B201-9885 2

3) **Rod Capscrew**
- B201-9887 2

1) **Tappet**
- B176-0633 x8

Valve Train

1) **Valve, Intake**
- B188-8640 x4

2) **Valve, Exhaust**
- B152-9857 x4

3) **Guide, Valve**
- B188-8633 x8

4) **Spring, Valve**
- B152-9858 x8

5) **Lock, Valve**
- B152-9860 x16

6) **Seal, Valve**
- B192-6335 x8

1) **Oil Pump**
- B173-0141

2) **Oil Cooler**
- B245-1361

3) **Fuel Transfer Pump**
- B153-0488

1) **Water Pump**
- B173-1282

2) **Thermostat**
- B4W-8063

1) **Glowplug**
- B177-7559 x4

2) **Turbocharger**
- B173-0442 1

(1): Check application for proper use

(2): Fractured style rod cap

CATERPILLAR 3044C NATURALLY ASPIRATED

Engine Model:
3044C

Engine Desc:
C3.4

Engine Data:
INDUSTRIAL ENGINE
NATURALLY ASPIRATED
INDIRECT INJECTION

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.7 in / 94.00 mm
Stroke: 4.72 in / 120.00 mm Piston Compression Height: 2.165 in / 55 mm

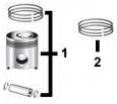
3044C Engine Arrangement

234-2179
234-2180
234-2181
235-3964

C3.4 Engine Arrangement

294-4451
294-4452
294-4470
455-3146
459-8929

Basic Engine Kit
- BBK3044 Std.
- BBK3045 0.50
- Spec Sheet - 3044C/T



1) **Piston & Ring Kit**
- B239-8506 Std.
- B239-8508 0.50

4 Per Engine

2) **Ring Set**
- B226-8204 Std.
- B238-8281 0.50

Main Bearing Set
- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

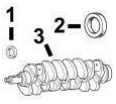
Set of 5 Pairs

Con Rod Bearing Set
- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

Set of 4 Pairs

Thrust Washer
- B103-9288 Std

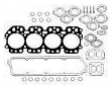
Set of 3 Pairs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015

3) **Crankshaft**
- B234-4794 1

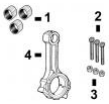


1) **O/H Gasket Set**
- B3044COG 3

2) **Cyl Head Gasket**
- B330-4867 1

3) **Valve Cover Gasket**
- B233-5483

4) **Oil Pan Gasket**
- B393-4171 2
- B3044OPG 2



1) **Bush, Con Rod**
- B128-2958 x4

2) **Bolt, Con Rod**
- B128-2955 x8

3) **Nut, Con Rod**
- B128-2956 x8

4) **Con Rod Kit**
- B103-9680

1) **Tappet**
- B103-9272 x8

2) **Push Rod**
- B103-9273 x8

Valve Train

1) **Valve, Intake**
- B233-5469 x4

2) **Valve, Exhaust**
- B233-5470 x4

3) **Guide, Valve**
- B103-9247 x8

4) **Spring, Valve**
- B103-2782 x8

5) **Lock, Valve**
- B5I-7719 x16

6) **Seal, Valve**
- B103-9260 x8

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B239-8512

1) **Water Pump**
-

2) **Thermostat**
- B235-4960

Glowplug
- B371-6702 x4

Fuel Pump
- B232-5877 1

(1): Check application for proper use.

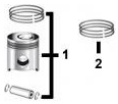
(2): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3044CT	INDUSTRIAL ENGINE	TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Please see page **563** for a complete list of equipment models.

Basic Engine Kit
- BBK3047 Std.
- BBK3048 0.50
- Spec Sheet - 3044C/T



1) **Piston & Ring Kit**
- B234-4814 Std.
- B234-4816 0.50

4 Per Engine

2) **Ring Set**
- B226-8204 Std.
- B238-8281 0.50

Main Bearing Set
- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

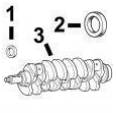
Set of 5 Pairs

Con Rod Bearing Set
- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

Set of 4 Pairs

Thrust Washer
- B103-9288

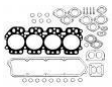
Set of 3 Pcs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015

3) **Crankshaft**
- B234-4794 1

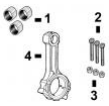


1) **O/H Gasket Set**
- B341-3561 2

2) **Cyl Head Gasket**
- B382-4468

3) **Valve Cover Gasket**
- B233-5483

4) **Oil Pan Gasket**
- B393-4171 3
- B3044OPG 3



1) **Bush, Con Rod**
- B128-2958 x4

2) **Bolt, Con Rod**
- B128-2955 x8

3) **Nut, Con Rod**
- B128-2956 x8

4) **Con Rod Kit**
- B103-9680

1) **Tappet**
- B103-9272 x8

2) **Push Rod**
- B103-9273 x8

Valve Train

1) **Valve, Intake**
- B233-5469 x4

2) **Valve, Exhaust**
- B233-5470 x4

3) **Guide, Valve**
- B103-9247 x8

4) **Spring, Valve**
- B103-2782 x8

5) **Lock, Valve**
- B5I-7719 x16

6) **Seal, Valve**
- B103-9260 x8

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B234-4803

1) **Water Pump**
- B235-4952 1
- B335-9117 1

2) **Thermostat**
- B235-4960

Glowplug
- B107-3659 x4

Fuel Lines
- 1) B239-0719
- 2) B239-0720
- 3) B239-0721
- 4) B239-0722

Fuel Pumps
- B232-5877 1

(1): Check application for proper use.

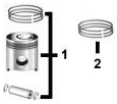
(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3044C/T	C3.4	INDUSTRIAL ENGINE TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Please see page **564** for a complete list of equipment models.

Basic Engine Kit
- BBK3050 Std.
- BBK3051 0.50
- Spec Sheet - 3044C/T



1) **Piston & Ring Kit**
- B314-9959 Std.
- B314-9961 0.50

4 Per Engine

2) **Ring Set**
- B314-9962 Std.
- B314-9963 0.50

Main Bearing Set
- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

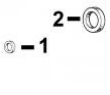
Set of 5 Pairs

Con Rod Bearing Set
- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

Set of 4 Pairs

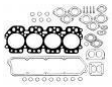
Thrust Washer
- B103-9288

Set of 3 Pcs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015

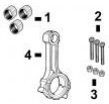


1) **O/H Gasket Set**
- B341-3561 2

2) **Cyl Head Gasket**
- B382-4468

3) **Valve Cover Gasket**
- B233-5483

4) **Oil Pan Gasket**
- B393-4171 3
- B3044OPG 3



1) **Bush, Con Rod**
- B128-2958 x4

2) **Bolt, Con Rod**
- B128-2955 x8

3) **Nut, Con Rod**
- B128-2956 x8

4) **Con Rod Kit**
- B103-9680

1) **Tappet**
- B103-9272 x8

2) **Push Rod**
- B103-9273 x8

Valve Train

1) **Valve, Intake**
- B233-5469 x4

2) **Valve, Exhaust**
- B233-5470 x4

3) **Guide, Valve**
- B103-9247 x8

4) **Spring, Valve**
- B103-2782 x8

5) **Lock, Valve**
- B5I-7719 x16

6) **Seal, Valve**
- B103-9260 x8

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B234-4803

1) **Water Pump**
- B335-9117 1

2) **Thermostat**
- B235-4960

Glowplug
- B107-3659 x4

Fuel Lines
- 1) B239-0719
- 2) B239-0720
- 3) B239-0721
- 4) B239-0722

Fuel Pump
- B232-5877 1

(1): Check application for proper use

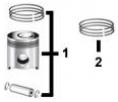
(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3044C/T	C3.4	INDUSTRIAL ENGINE TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

ESN	Engine Arrangement		Compact Track Loaders		Skid Steer		Wheel Loaders	
CYM1-UP	287-8073	332-8660	259B3	279C2	236B2	246C	906H	907H
	300-6603	342-1219	289C2		236B3	252B		
	305-2571				242B3	252B2		

Basic Engine Kit
- BBK3069 Std.
- BBK3071 0.50
- Spec Sheet - 3044C/T



1) **Piston & Ring Kit**
- B315-4669 Std.
- B315-4671 0.50

4 Per Engine

2) **Ring Set**
- B314-9962 Std.
- B314-9963 0.50

Main Bearing Set
- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

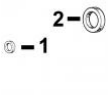
Set of 5 Pairs

Con Rod Bearing Set
- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

Set of 4 Pairs

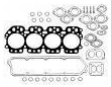
Thrust Washer
- B103-9288

Set of 3 Pcs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015

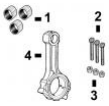


1) **O/H Gasket Set**
- B341-3561 2

2) **Cyl Head Gasket**
- B382-4468

3) **Valve Cover Gasket**
- B233-5483

4) **Oil Pan Gasket**
- B393-4171 3
- B3044OPG 3



1) **Bush, Con Rod**
- B128-2958 x4

2) **Bolt, Con Rod**
- B128-2955 x8

3) **Nut, Con Rod**
- B128-2956 x8

4) **Con Rod Kit**
- B103-9680

1) **Tappet**
- B103-9272 x8

2) **Push Rod**
- B103-9273 x8

Valve Train

1) **Valve, Intake**
- B233-5469 x4

2) **Valve, Exhaust**
- B233-5470 x4

3) **Guide, Valve**
- B103-9247 x8

4) **Spring, Valve**
- B103-2782 x8

5) **Lock, Valve**
- B5I-7719 x16

6) **Seal, Valve**
- B103-9260 x8

1) **Oil Pump**
- B315-4678

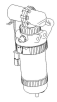
2) **Oil Cooler**
- B234-4803

1) **Water Pump**
- B335-9117 1

2) **Thermostat**
- B235-4960

Glowplug
- B107-3659 x4

Fuel Lines
- 1) B239-0719
- 2) B239-0720
- 3) B239-0721
- 4) B239-0722



Fuel Pump
- B232-5877 1

(1): Check application for proper use

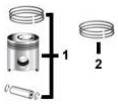
(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3044C/T	C3.4	INDUSTRIAL ENGINE TURBOCHARGED DIRECT INJECTION	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

ESN		Engine Arrangement		Compact Track Loaders	Skid Steer	Wheel Loaders
CJS1-UP	CYM1-UP	287-8075	319-6807	299C	272C	297C

Basic Engine Kit
- BBK2335 Std.
- BBK2339 0.50
- Spec Sheet - 3044C/T



1) **Piston & Ring Kit**
- B315-2335 Std.
- B315-2339 0.50

4 Per Engine

2) **Ring Set**
- B314-9962 Std.
- B314-9963 0.50

Main Bearing Set
- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

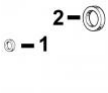
Set of 5 Pairs

Con Rod Bearing Set
- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

Set of 4 Pairs

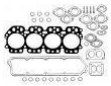
Thrust Washer
- B103-9288

Set of 3 Pcs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015

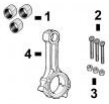


1) **O/H Gasket Set**
- B341-3561 2

2) **Cyl Head Gasket**
- B382-4468

3) **Valve Cover Gasket**
- B233-5483

4) **Oil Pan Gasket**
- B393-4171 3
- B3044OPG 3



1) **Bush, Con Rod**
- B128-2958 x4

2) **Bolt, Con Rod**
- B128-2955 x8

3) **Nut, Con Rod**
- B128-2956 x8

4) **Con Rod Kit**
- B103-9680

1) **Tappet**
- B103-9272 x8

2) **Push Rod**
- B103-9273 x8

Valve Train

1) **Valve, Intake**
- B233-5469 x4

2) **Valve, Exhaust**
- B233-5470 x4

3) **Guide, Valve**
- B103-9247 x8

4) **Spring, Valve**
- B103-2782 x8

5) **Lock, Valve**
- B5I-7719 x16

6) **Seal, Valve**
- B103-9260 x8

1) **Oil Pump**
- B315-4678

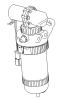
2) **Oil Cooler**
- B234-4803

1) **Water Pump**
- B335-9117 1

2) **Thermostat**
- B235-4960

Glowplug
- B107-3659 x4

Fuel Lines
- 1) B239-0719
- 2) B239-0720
- 3) B239-0721
- 4) B239-0722



Fuel Pump
- B232-5877 1

(1): Check application for proper use

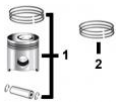
(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3046	NATURALLY ASPIRATED	DIRECT INJECTION	6 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Please see page **565** for a complete list of equipment models.

Basic Engine Kit
- BBK3053 Std.
- BBK3054 0.50
- Spec Sheet - 3046



1) **Piston & Ring Kit**
- B107-8366 Std.
- B107-8256 0.50

6 Per Engine

2) **Ring Set**
- B103-2857 Std.
- B103-2859 0.50

Main Bearing Set
- B107-0991 Std.
- B114-5609 0.010
- B114-5610 0.020
- B114-5611 0.030

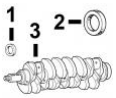
Set of 7 Pairs

Con Rod Bearing Set
- B103-9683 Std.
- B103-9684 0.010
- B103-9685 0.020
- B103-9686 0.030

Set of 6 Pairs

Thrust Washer
- B103-9288 Std

Set of 3 Pairs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015 2
- B103-2835 3 2

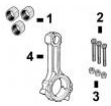
3) **Crankshaft**
- B107-0992F 2

1) **O/H Gasket Set**
- B107-3732 1

2) **Cylinder Head Gasket**
- B107-0979

3) **Valve Cover Gasket**
- B107-0969

4) **Oil Pan Gasket**
- B200-7937 1

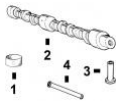


1) **Bushing, Con Rod**
- B128-2958 x6

2) **Bolt, Con Rod**
- B128-2955 x12

3) **Nut, Con Rod**
- B128-2956 x12

4) **Con Rod Kit**
- B103-9680



1) **Bushing, Cam**
- B5I-8009 x1
- B5I-7528 x2
- B5I-7529 x1

Bushing, Cam Set
- B3066CBS 5

2) **Camshaft**
- B107-8369

3) **Tappet**
- B103-9272 x12

4) **Push Rod**
- B103-9273 x12

Valve Train

1) **Valve, Intake**
- B233-5469 x6

2) **Valve, Exhaust**
- B233-5470 x6

3) **Guide, Valve**
- B103-9247 x12

4) **Spring, Valve**
- B103-2782 x12

5) **Lock, Valve**
- B5I-7719 x24

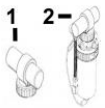
6) **Seal, Valve**
- B103-9260 x12

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B107-2167

1) **Water Pump**
- B117-5033 2

2) **Thermostat**
- B124-4835



Fuel Pump
- 1) B228-9129 (2 Pin) 2
- 2) B349-1063 (3 Pin) 2

1) **Repair Sleeve**
- B122-7311

2) **Cylinder Head**
- B107-0978UF

Valvetrain Kit
- B107-0978UF-VTK 4

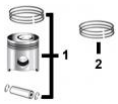
Glowplug
- B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
(2): Check application for proper use.
(3): Use on ESN: 5XK1-UP. Not included in Basic Engine Kit. Order separately.
(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.
(5): Includes:B5I-8009 x 1B5I-7528 x 2B5I-7529 x 1

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3046	NATURALLY ASPIRATED	DIRECT INJECTION	6 Cyl	Bore:3.7 in/94.00 mm Stroke:4.72 in/120.00 mm

Please see page **566** for a complete list of equipment models.

Basic Engine Kit
- BBK3056 Std.
- BBK3057 0.50
- Spec Sheet - 3046



1) **Piston & Ring Kit**
- B128-2952 Std.
- B128-2952B 0.50

6 Per Engine

2) **Ring Set**
- B103-2857 Std.
- B103-2859 0.50

Main Bearing Set
- B107-0991 Std.
- B114-5609 0.010
- B114-5610 0.020
- B114-5611 0.030

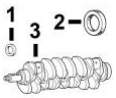
Set of 7 Pairs

Con Rod Bearing Set
- B103-9683 Std.
- B103-9684 0.010
- B103-9685 0.020
- B103-9686 0.030

Set of 6 Pairs

Thrust Washer
- B103-9288 Std

Set of 3 Pairs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015 2
- B103-2835 3 2

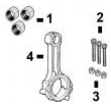
3) **Crankshaft**
- B107-0992F 2

1) **O/H Gasket Set**
- B107-3732 1

2) **Cylinder Head Gasket**
- B107-0979

3) **Valve Cover Gasket**
- B107-0969

4) **Oil Pan Gasket**
- B200-7937 1

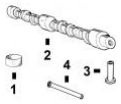


1) **Bushing, Con Rod**
- B128-2958 x6

2) **Bolt, Con Rod**
- B128-2955 x12

3) **Nut, Con Rod**
- B128-2956 x12

4) **Con Rod Kit**
- B103-9680



1) **Bushing, Cam**
- B5I-8009 x1
- B5I-7528 x2
- B5I-7529 x1

Bushing, Cam Set
- B3066CBS 5

2) **Camshaft**
- B107-8369

3) **Tappet**
- B103-9272 x12

4) **Push Rod**
- B103-9273 x12

Valve Train

1) **Valve, Intake**
- B233-5469 x6

2) **Valve, Exhaust**
- B233-5470 x6

3) **Guide, Valve**
- B103-9247 x12

4) **Spring, Valve**
- B103-2782 x12

5) **Lock, Valve**
- B5I-7719 x24

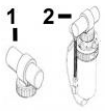
6) **Seal, Valve**
- B103-9260 x12

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B107-2167

1) **Water Pump**
- B117-5033 2

2) **Thermostat**
- B124-4835



Fuel Pump
- 1) B228-9129 (2 Pin) 2
- 2) B349-1063 (3 Pin) 2

1) **Repair Sleeve**
- B122-7311

2) **Cylinder Head**
- B107-0978UF

Valvetrain Kit
- B107-0978UF-VTK 4

Glowplug
- B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
(2): Check application for proper use.
(3): Use on ESN: 5XK1-UP. Not included in Basic Engine Kit. Order separately.
(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.
(5): Includes:B5I-8009 x 1B5I-7528 x 2B5I-7529 x 1

Engine Model:
3046

Engine Desc:
TURBOCHARGE

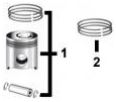
Engine Data:
DIRECT INJECTION

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.7 in / 94.00 mm
Stroke: 4.72 in / 120.00 mm

Please see page **567** for a complete list of equipment models.

Basic Engine Kit
- BBK3059 Std.
- BBK3060 0.50
- Spec Sheet - 3046



1) **Piston & Ring Kit**
- B107-0984 Std.
- B107-0984B 0.50

6 Per Engine

2) **Ring Set**
- B103-2857 Std.
- B103-2859 0.50

Main Bearing Set
- B107-0991 Std.
- B114-5609 0.010
- B114-5610 0.020
- B114-5611 0.030

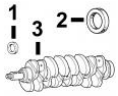
Set of 7 Pairs

Con Rod Bearing Set
- B103-9683 Std.
- B103-9684 0.010
- B103-9685 0.020
- B103-9686 0.030

Set of 6 Pairs

Thrust Washer
- B103-9288 Std

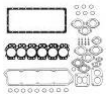
Set of 3 Pairs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015 2
- B103-2835 3 2

3) **Crankshaft**
- B107-0992F 2

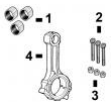


1) **O/H Gasket Set**
- B107-3732 1

2) **Cylinder Head Gasket**
- B107-0979

3) **Valve Cover Gasket**
- B107-0969

4) **Oil Pan Gasket**
- B200-7937 1

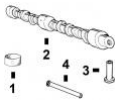


1) **Bushing, Con Rod**
- B128-2958 x6

2) **Bolt, Con Rod**
- B128-2955 x12

3) **Nut, Con Rod**
- B128-2956 x12

4) **Con Rod Kit**
- B103-9680



1) **Bushing, Cam**
- B5I-8009 x1
- B5I-7528 x2
- B5I-7529 x1

Bushing, Cam Set
- B3066CBS 5

2) **Camshaft**
- B107-8369

3) **Tappet**
- B103-9272 x12

4) **Push Rod**
- B103-9273 x12

Valve Train

1) **Valve, Intake**
- B233-5469 x6

2) **Valve, Exhaust**
- B233-5470 x6

3) **Guide, Valve**
- B103-9247 x12

4) **Spring, Valve**
- B103-2782 x12

5) **Lock, Valve**
- B5I-7719 x24

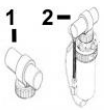
6) **Seal, Valve**
- B103-9260 x12

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B107-2167

1) **Water Pump**
- B117-5033 2

2) **Thermostat**
- B124-4835



Fuel Pump
- 1) B228-9129 (2 Pin) 2
- 2) B349-1063 (3 Pin) 2

1) **Repair Sleeve**
- B122-7311

2) **Turbocharger**
- B117-7867 2

3) **Cylinder Head**
- B107-0978UF

Valvetrain Kit
- B107-0978UF-VTK 4

Glowplug
- B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
(2): Check application for proper use.
(3): Use on ESN: 5XK1-UP. Not included in Basic Engine Kit. Order separately.
(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.
(5): Includes:B5I-8009 x 1B5I-7528 x 2B5I-7529 x 1

Engine Model:
3046

Engine Desc:
TURBOCHARGE

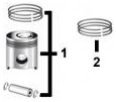
Engine Data:
DIRECT INJECTION

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.7 in / 94.00 mm
Stroke: 4.72 in / 120.00 mm

Please see page **568** for a complete list of equipment models.

Basic Engine Kit
- BBK3062 Std.
- BBK3063 0.50
- Spec Sheet - 3046



1) **Piston & Ring Kit**
- B128-3295 Std.
- B128-3295B 0.50

6 Per Engine

2) **Ring Set**
- B103-2857 Std.
- B103-2859 0.50

Main Bearing Set
- B107-0991 Std.
- B114-5609 0.010
- B114-5610 0.020
- B114-5611 0.030

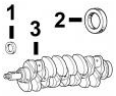
Set of 7 Pairs

Con Rod Bearing Set
- B103-9683 Std.
- B103-9684 0.010
- B103-9685 0.020
- B103-9686 0.030

Set of 6 Pairs

Thrust Washer
- B103-9288 Std

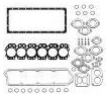
Set of 3 Pairs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015 2
- B103-2835 3 2

3) **Crankshaft**
- B107-0992F 2

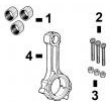


1) **O/H Gasket Set**
- B107-3732 1

2) **Cylinder Head Gasket**
- B107-0979

3) **Valve Cover Gasket**
- B107-0969

4) **Oil Pan Gasket**
- B200-7937 1

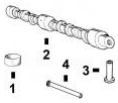


1) **Bushing, Con Rod**
- B128-2958 x6

2) **Bolt, Con Rod**
- B128-2955 x12

3) **Nut, Con Rod**
- B128-2956 x12

4) **Con Rod Kit**
- B103-9680



1) **Bushing, Cam**
- B5I-8009 x1
- B5I-7528 x2
- B5I-7529 x1

Bushing, Cam Set
- B3066CBS 5

2) **Camshaft**
- B107-8369

3) **Tappet**
- B103-9272 x12

4) **Push Rod**
- B103-9273 x12

Valve Train

1) **Valve, Intake**
- B233-5469 x6

2) **Valve, Exhaust**
- B233-5470 x6

3) **Guide, Valve**
- B103-9247 x12

4) **Spring, Valve**
- B103-2782 x12

5) **Lock, Valve**
- B5I-7719 x24

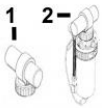
6) **Seal, Valve**
- B103-9260 x12

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B107-2167

1) **Water Pump**
- B117-5033 2

2) **Thermostat**
- B124-4835



Fuel Pump
- 1) B228-9129 (2 Pin) 2
- 2) B349-1063 (3 Pin) 2

1) **Repair Sleeve**
- B122-7311

2) **Turbocharger**
- B117-7867 2

3) **Cylinder Head**
- B107-0978UF

Valvetrain Kit
- B107-0978UF-VTK 4

Glowplug
- B107-3659 x6

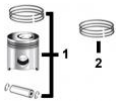
(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
(2): Check application for proper use.
(3): Use on ESN: 5XK15489-UP. Not included in Basic Engine Kit. Order separately.
(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.
(5): Includes:B5I-8009 x 1B5I-7528 x 2B5I-7529 x 1

CATERPILLAR 3046 TURBOCHARGED

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3046	TURBOCHARGED	DIRECT INJECTION	6 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

ESN		Engine Arrangement		Caterpillar	
5XK484-UP	5XK24000-UP	156-4372 176-1066	176-1067 176-7085	317B L - Excavators	317B LN - Excavators
				318B L - Excavators	318B LN - Excavators

Basic Engine Kit
- BBK3065 Std.
- BBK3066 0.50
- Spec Sheet - 3046



1) Piston & Ring Kit
- B160-6600 Std.
- B160-6600B 0.50

6 Per Engine

2) Ring Set
- B103-2857 Std.
- B103-2859 0.50

Main Bearing Set
- B107-0991 Std.
- B114-5609 0.010
- B114-5610 0.020
- B114-5611 0.030

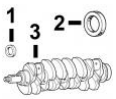
Set of 7 Pairs

Con Rod Bearing Set
- B103-9683 Std.
- B103-9684 0.010
- B103-9685 0.020
- B103-9686 0.030

Set of 6 Pairs

Thrust Washer
- B103-9288 Std

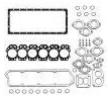
Set of 3 Pairs



1) Front Seal
- B239-8429

2) Rear Seal
- B117-5015

3) Crankshaft
- B107-0992F 2

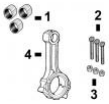


1) O/H Gasket Set
- B107-3732 1

2) Cylinder Head Gasket
- B107-0979

3) Valve Cover Gasket
- B107-0969

4) Oil Pan Gasket
- B200-7937 1

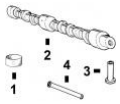


1) Bushing, Con Rod
- B128-2958 x6

2) Bolt, Con Rod
- B128-2955 x12

3) Nut, Con Rod
- B128-2956 x12

4) Con Rod Kit
- B103-9680



1) Bushing, Cam
- B5I-8009 x1
- B5I-7528 x2
- B5I-7529 x1

Bushing, Cam Set
- B3066CBS 3

2) Camshaft
- B107-8369

3) Tappet
- B103-9272 x12

4) Push Rod
- B103-9273 x12

Valve Train

1) Valve, Intake
- B233-5469 x6

2) Valve, Exhaust
- B233-5470 x6

3) Guide, Valve
- B103-9247 x12

4) Spring, Valve
- B103-2782 x12

5) Lock, Valve
- B5I-7719 x24

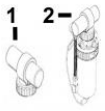
6) Seal, Valve
- B103-9260 x12

1) Oil Pump
- B315-4678

2) Oil Cooler
- B107-2167

1) Water Pump
- B117-5033 2

2) Thermostat
- B124-4835



Fuel Pump
- 1) B228-9129 (2 Pin) 2
- 2) B349-1063 (3 Pin) 2

1) Repair Sleeve
- B122-7311

2) Turbocharger
- B117-7867 2

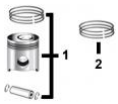
Glowplug
- B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
(2): Check application for proper use.
(3): Includes:B5I-8009 x 1B5I-7528 x 2B5I-7529 x 1

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3046	TURBOCHARGED	DIRECT INJECTION	6 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Engine Arrangement		Tractors		Excavators	
198-1442	211-3012	D5G XL	D5G LGP	315C	315C L
213-8544	213-8555	D3G XL	D3G LGP		
280-6708	280-6715	D4G XL	D4G LGP		
280-6718					

Basic Engine Kit
- BBK4284 Std.
- BBK4284B 0.50
- Spec Sheet - 3046



1) **Piston & Ring Kit**
- B225-4284 Std.
- B225-4284B 0.50

6 Per Engine

2) **Ring Set**
- B226-8204 Std.
- B238-8281 0.50

Main Bearing Set
- B107-0991 Std.
- B114-5609 0.010
- B114-5610 0.020
- B114-5611 0.030

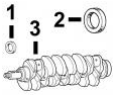
Set of 7 Pairs

Con Rod Bearing Set
- B103-9683 Std.
- B103-9684 0.010
- B103-9685 0.020
- B103-9686 0.030

Set of 6 Pairs

Thrust Washer
- B103-9288 Std

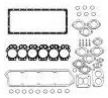
Set of 3 Pairs



1) **Front Seal**
- B239-8429

2) **Rear Seal**
- B117-5015 2
- B103-2835 3 2

3) **Crankshaft**
- B107-0992F 2

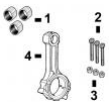


1) **O/H Gasket Set**
- B107-3732 1

2) **Cylinder Head Gasket**
- B107-0979

3) **Valve Cover Gasket**
- B107-0969

4) **Oil Pan Gasket**
- B200-7937 1

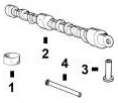


1) **Bushing, Con Rod**
- B128-2958 x6

2) **Bolt, Con Rod**
- B128-2955 x12

3) **Nut, Con Rod**
- B128-2956 x12

4) **Con Rod Kit**
- B103-9680



1) **Bushing, Cam**
- B5I-8009 x1
- B5I-7528 x2
- B5I-7529 x1

Bushing, Cam Set
- B3066CBS 4

2) **Camshaft**
- B107-8369

3) **Tappet**
- B103-9272 x12

4) **Push Rod**
- B103-9273 x12

Valve Train

1) **Valve, Intake**
- B233-5469 x6

2) **Valve, Exhaust**
- B233-5470 x6

3) **Guide, Valve**
- B103-9247 x12

4) **Spring, Valve**
- B103-2782 x12

5) **Lock, Valve**
- B5I-7719 x24

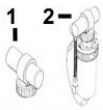
6) **Seal, Valve**
- B103-9260 x12

1) **Oil Pump**
- B315-4678

2) **Oil Cooler**
- B107-2167

1) **Water Pump**
- B117-5033 2

2) **Thermostat**
- B124-4835



Fuel Pump
- 1) B228-9129 (2 Pin) 2
- 2) B349-1063 (3 P 4 2

1) **Repair Sleeve**
- B122-7311

2) **Turbocharger**
- B117-7867 2

Glowplug
- B107-3659 x6

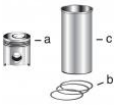
(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
(2): Check application for proper use.
(3): Use on ESN: 5XK15489-UP. Not included in Basic Engine Kit. Order separately.
(4): Includes:B5I-8009 x 1B5I-7528 x 2B5I-7529 x 1

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054	NATURALLY ASPIRATED	416 BACKHOES 426 BACKHOES	4 Cyl	Bore: 3.877 in / 98.476 mm

Model 416	Model 426	Backhoe Loaders	Caterpillar	Engine Arrangement
ESN - 5PC1-UP	ESN - 7BC1-UP	416 426 416C	554 - Forwarder	2W-9777 2W-9778 7C-6074

1) Engine O/H Kit
- BOK500

2) Basic Engine Kit
- BBK500
- SPEC SHEET - 3054



Piston-Liner Kit
- BCK819

Consist of:
- a) B4W-5819
- b) B7W-7732
- c) B7C-3182 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

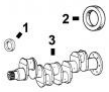
Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

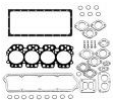
Set of 2 Pairs



1) Front Seal
- B4W-5359

2) Rear Seal
- B4W-5360

3) Crankshaft Kit
- B7C-8214



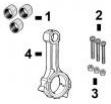
1) Top Gasket Set
- B4P-7577

2) Bottom Gasket Set
- B7C-3801

3) Valve Cover Gsk
- B4P-3676

4) Head Gasket
- B7C-3803

5) Oil Pan Gasket
- B032-9946

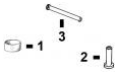


1) Bush, Con Rod
- B067-6158 x4

2) Bolt, Con Rod
- B067-6883 x8

3) Nut, Con Rod
- B7W-2505 x8

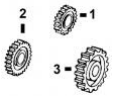
4) Con Rod
- B067-6879



1) Bushing, Cam
- B036-5802 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095



1) Crankshaft Gear
- B067-9579

2) Camshaft Gear
- B7C-3187

3) Idler Gear
- B2W-1529

Valve Train Kit
- BVTK550

1) Valve, Intake
- B2W-6988 x4

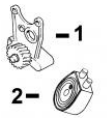
2) Valve, Exhaust
- B7W-2522 x4

3) Guide, Valve
a) Intake
b) Exhaust
- 3a) B160-5436 x4
- 3b) B160-5438 x4

4) Spring, Valve
a) Inner
b) Outer
- 4a) B067-6053 x8
- 4b) B067-6052 x8

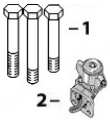
5) Lock, Valve
- B067-6834 x16

6) Seal, Valve
- B1W-5849 X8



1) Oil Pump
- B067-6925

2) Oil Cooler
- B7E-5584
- B245-1361

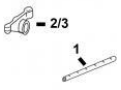


1) Cylinder Head Bolt
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) Lift Pump
- B7C-2798

1) Water Pump
- B7E-9195

2) Thermostat
- B4W-8063



1) Rocker Shaft
- B032-9007

2) Rocker Arm LH
- B150-1217

3) Rocker Arm RH
- B150-1218

1) Cylinder Head
- B7C-3188

2) Heater Plug
- B035-8059

(1): Flanged Fully Finished Liner. Semi Finished Liner available B7C-3182UF.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054T	TURBOCHARGED	416 BACKHOES 426 BACKHOES	4 Cyl	Bore: 3.877 in / 98.476 mm

Model 416	Model 426	Engine Arrangement		Backhoe Loaders	
ESN - 5PC1- UP	ESN - 7BC1- UP	7W-8998	7C-6076	416 426C	426 436C

1) Engine O/H Kit
- BOK501

2) Basic Engine Kit
- BBK501
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK107

Consist of:
- a) B116-6107
- b) B7W-2513
- c) B7C-3182 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

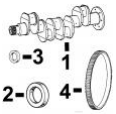
Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

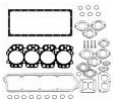


1) Front Seal
- B4W-5359

2) Rear Seal
- B4W-5360

3) Crankshaft Kit
- B7C-8214

4) Ring Gear
- B186-2374 122T



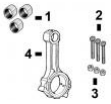
1) Top Gasket Set
- BTG-0236

2) Bottom Gasket Set
- B7C-3801

3) Valve Cover Gsk
- B4P-3676

4) Head Gasket
- BCH-0236

5) Oil Pan Gasket
- B032-9946

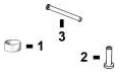


1) Bush, Con Rod
- B7W-2510 x4

2) Bolt, Con Rod
- B067-6883 x8

3) Nut, Con Rod
- B7W-2505 x8

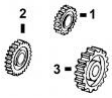
4) Con Rod
- B7W-2514



1) Bushing, Cam
- B036-5802 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095



1) Crankshaft Gear
- B067-9579

2) Camshaft Gear
- B7C-3187

3) Idler Gear
- B2W-1529

Valve Train Kit
- BVTK550

1) Valve, Intake
- B2W-6988 x4

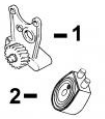
2) Valve, Exhaust
- B7W-2522 x4

3) Guide, Valve
a) Intake
b) Exhaust
- 3a) B160-5436 x4
- 3b) B160-5438 x4

4) Spring, Valve
a) Inner
b) Outer
- 4a) B067-6053 x8
- 4b) B067-6052 x8

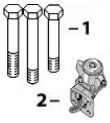
5) Lock, Valve
- B067-6834 x16

6) Seal, Valve
- B1W-5849 X8



1) Oil Pump
- B067-6925

2) Oil Cooler
- B7E-5584

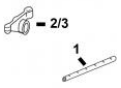


1) Cylinder Head Bolt
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) Lift Pump
- B7C-2798

1) Water Pump
- B7E-9195

2) Thermostat
- B4W-8063



1) Rocker Shaft
- B032-9007

2) Rocker Arm LH
- B150-1217

3) Rocker Arm RH
- B150-1218

1) Cylinder Head
- B7C-3188

2) Heater Plug
- B035-8059

(1): Flanged Fully Finished Liner. Semi Finished Liner available B7C-3182UF.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054	NATURALLY ASPIRATED	INDUSTRIAL ENGINE	4 Cyl	Bore: 3.937 in / 100.00 mm

Please see page **569** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK502

2) **Basic Engine Kit**
- BBK502
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK264

Consist of:
- a) B135-0264
- b) B146-1780
- c) B6I-0164 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

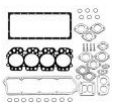
1) **Front Seal**
- B4W-5359

2a) **Rear Seal**
- B4W-5360 2

2b) **Rear Seal**
- B209-9218 3

3) **Crankshaft Kit**
- B7C-8214

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T



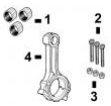
1) **Top Gasket Set**
- B177-3310

2) **Bottom Gasket Set**
- B173-9716

3) **Valve Cover Gsk**
- B126-6671

4) **Head Gasket**
- B160-0161

5) **Oil Pan Gasket**
- B032-9946

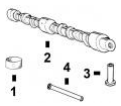


1) **Bush, Con Rod**
- B067-6158 x4

2) **Bolt, Con Rod**
- B067-6883 x8

3) **Nut, Con Rod**
- B7W-2505 x8

4) **Con Rod**
- B067-6879



1) **Bushing, Cam**
- B036-5802 x1

2) **Camshaft**
- B132-3930

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

Valve Train Kit
- BVTK551

1) **Valve, Intake**
- B6I-0282 x4

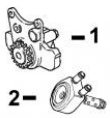
2) **Valve, Exhaust**
- B7W-4602 x4

3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B160-5436 x4
- 3b) B160-5438 x4

4) **Spring, Valve**
a) Inner
b) Outer
- 4a) B6I-0284 x8
- 4b) B6I-0283 x8

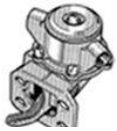
5) **Lock, Valve**
- B067-6834 x16

6) **Seal, Valve**
- B1W-5849 X8



1) **Oil Pump**
- B6I-0253

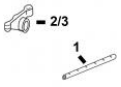
2) **Oil Cooler**
- B245-1372 4
- B247-6318 4



Lift Pump
- B201-0877

1) **Water Pump**
- B151-4825

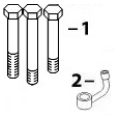
2) **Thermostat**
- B4W-8063



1) **Rocker Shaft**
- B032-9007

2) **Rocker Arm LH**
- B150-1217

3) **Rocker Arm RH**
- B150-1218



1) **Cylinder Head Bolt**
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) **Piston Cooling Nozzle**
- B148-0877

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I- **(2):** To ESN: 6FK10030 0164UF
(3): From ESN: 6FK10031 **(4):** Check application for proper usage

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054T	TURBOCHARGED	INDUSTRIAL ENGINE	4 Cyl	Bore: 3.937 in / 100.00 mm

Please see page **570** for a complete list of equipment models.

1) Engine O/H Kit
- BOK503/45
- BOK503/30

2) Basic Engine Kit
- BBK503
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK553

Consist of:
- a) B107-2553
- b) B112-7020
- c) B6I-0164 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

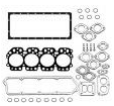
1) Front Seal
- B4W-5359

2a) Rear Seal
- B4W-5360 2

2b) Rear Seal
- B209-9218 3

3) Crankshaft Kit
- B4P-9948

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T



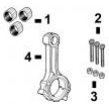
1) Top Gasket Set
- B177-3310

2) Bottom Gasket Set
- B173-9716

3) Valve Cover Gsk
- B126-6671

4) Head Gasket
- B160-0161

5) Oil Pan Gasket
- B032-9946

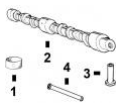


1) Bush, Con Rod
- B7W-2510 x4

2) Bolt, Con Rod
- B067-6883 x8

3) Nut, Con Rod
- B7W-2505 x8

4) Con Rod
- B7W-2514



1) Bushing, Cam
- B036-5802 x1

2) Camshaft
- B132-3930

3) Tappet
- B138-2053

4) Pushrod
- B067-6095

Valve Train Kit
- a) 45 b) 30
- a) BVTK552
- b) BVTK556

1) Valve, Intake
- a) 45 b) 30

2) Valve, Exhaust
- 1a) B6I-1196 x4
- 1b) B100-4626 x4
- 2) B7W-4602 x4

3) Guide, Valve

a) Intake

b) Exhaust
- 3a) B160-5436 x4
- 3b) B160-5438 x4

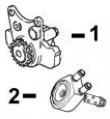
4) Spring, Valve

a) Inner

b) Outer
- 4a) B6I-0284 x8 4
- 4b) B6I-0283 x8 4

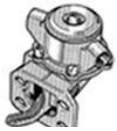
5) Lock, Valve
- B067-6834 x16

6) Seal, Valve
- B1W-5849 X8



1) Oil Pump
- B6I-0912

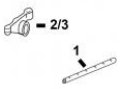
2) Oil Cooler
- B245-1372 5
- B247-6318 5



Lift Pump
- B201-0877

1) Water Pump
- B151-4825

2) Thermostat
- B4W-8063



1) Rocker Shaft
- B032-9007

2) Rocker Arm LH
- B150-1217

3) Rocker Arm RH
- B150-1218

1) Piston Cooling Nozzle
- B148-3026

2) Turbocharger
- B219-9773 5
- B118-8384 5

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I-0164UF.

(2): To ESN: 6FK10030

(3): From ESN: 6FK10031

(4): For low speed, single valve spring applications, use # 6I-0271 (Not available from Maxiforce).

(5): Check application for proper usage

CATERPILLAR 3054T PISTON GRADE L

Engine Model:
3054T

Engine Desc:
TURBOCHARGED

Engine Data:
Used in CAT Wheel Loader Model 914G / IT4G

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 365 in3 / 6 Lt

Piston (M):
GRADE L (m) 3135J186

ESN	Caterpillar		Hydraulic Excavators	Engine Arrangement	
6FK1-UP	PS200B - Pneumatic Roller	PS360B - Pneumatic Roller	M315	107-4860	107-9665

1) **Engine O/H Kit**
- BOK529

2) **Basic Engine Kit**
- BBK529
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK529

Consist of:
- a) B124-3529
- b) B112-7020
- c) B111-1815 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

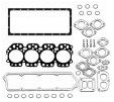
Set of 2 Pairs

1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B4W-5360

3) **Crankshaft Kit**
- B139-7018

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T



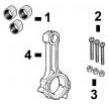
1) **Top Gasket Set**
- B177-3310

2) **Bottom Gasket Set**
- B173-9716

3) **Valve Cover Gsk**
- B126-6671

4) **Head Gasket**
- B160-0161

5) **Oil Pan Gasket**
- B032-9946

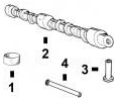


1) **Bush, Con Rod**
- B124-3531 x4

2) **Bolt, Con Rod**
- B124-3532 x8

3) **Nut, Con Rod**
- B124-3533 x8

4) **Con Rod**
- B124-3530



1) **Bushing, Cam**
- B036-5802 x1

2) **Camshaft**
- B132-3930

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

Valve Train Kit
- BVTK556

1) **Valve, Intake**
- B100-4626 x4

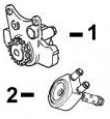
2) **Valve, Exhaust**
- B7W-4602 x4

3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B160-5436 x4
- 3b) B160-5438 x4

4) **Spring, Valve**
a) Inner
b) Outer
- 4a) B6I-0284 x8
- 4b) B6I-0283 x8

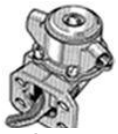
5) **Lock, Valve**
- B067-6834 x16

6) **Seal, Valve**
- B1W-5849 x8



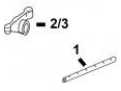
1) **Oil Pump**
- B6I-0912

2) **Oil Cooler**
- B245-1372



Lift Pump
- B201-0877

Water Pump
- B151-4825



1) **Rocker Shaft**
- B032-9007

2) **Rocker Arm LH**
- B150-1217

3) **Rocker Arm RH**
- B150-1218

1) **Cylinder Head Bolt**
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) **Piston Cooling Nozzle**
- B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111

CATERPILLAR 3054T PISTON GRADE K

Engine Model:
3054T

Engine Desc:
TURBOCHARGED

Engine Data:
Used in CAT Wheel Loader Model 914G / IT4G

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 365 in3 / 6 Lt

Piston (M):
GRADE K (m) 3135J185

ESN	Caterpillar		Hydraulic Excavators		Wheel Loaders		Engine Arrangement	
7BJ1-UP	PS200B - Pneumatic Roller	PS360B - Pneumatic Roller	M312	M315	914G	IT14G	107-4860 107-9665	203-0762 356-9742

1) **Engine O/H Kit**
- BOK528

2) **Basic Engine Kit**
- BBK528
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK528

Consist of:
- a) B124-3528
- b) B112-7020
- c) B111-1815 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

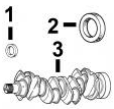
Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

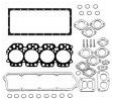
Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B4W-5360

3) **Crankshaft Kit**
- B139-7018



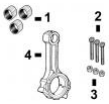
1) **Top Gasket Set**
- B177-3310

2) **Bottom Gasket Set**
- B173-9716

3) **Valve Cover Gsk**
- B126-6671

4) **Head Gasket**
- B160-0161

5) **Oil Pan Gasket**
- B032-9946

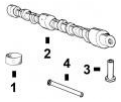


1) **Bush, Con Rod**
- B124-3531 x4

2) **Bolt, Con Rod**
- B124-3532 x8

3) **Nut, Con Rod**
- B124-3533 x8

4) **Con Rod**
- B124-3530



1) **Bushing, Cam**
- B036-5802 x1

2) **Camshaft**
- B132-3930

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

Valve Train Kit
- BVTK556

1) **Valve, Intake**
- B100-4626 x4

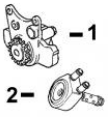
2) **Valve, Exhaust**
- B7W-4602 x4

3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B160-5436 x4
- 3b) B160-5438 x4

4) **Spring, Valve**
a) Inner
b) Outer
- 4a) B6I-0284 x8
- 4b) B6I-0283 x8

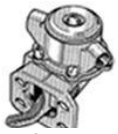
5) **Lock, Valve**
- B067-6834 x16

6) **Seal, Valve**
- B1W-5849 x8



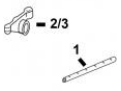
1) **Oil Pump**
- B6I-0912

2) **Oil Cooler**
- B245-1372



Lift Pump
- B201-0877

Water Pump
- B151-4825



1) **Rocker Shaft**
- B032-9007

2) **Rocker Arm LH**
- B150-1217

3) **Rocker Arm RH**
- B150-1218

1) **Cylinder Head Bolt**
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) **Piston Cooling Nozzle**
- B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111

Engine Model:
3054

Engine Desc:
TURBOCHARGE or NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **571** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK504/45
- BOK504/30

2) **Basic Engine Kit**
- BBK504
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK390

Consist of:
- a) B152-1390
- b) B138-2073
- c) B111-1815 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

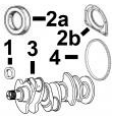
Set of 5 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



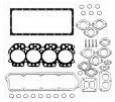
1) **Front Seal**
- B4W-5359

2a) **Rear Seal**
- B4W-5360 2

2b) **Rear Seal**
- B209-9218 3

3) **Crankshaft Kit**
- B4P-9948

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T



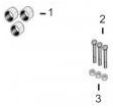
1) **Top Gasket Set**
- B175-1321

2) **Bottom Gasket Set**
- B187-4968

3) **Valve Cover Gsk**
- B200-6374

4) **Head Gasket**
- B160-0161

5) **Oil Pan Gasket**
- B032-9946



1) **Bush, Con Rod**
- B138-2048 x4

2) **Bolt, Con Rod**
- B067-6883 x8

3) **Nut, Con Rod**
- B7W-2505 x8

1) **Bushing, Cam**
- B036-5802 x1

2) **Tappet**
- B138-2053

3) **Pushrod**
- B067-6095

4) **Seal, Valve Intake**
- B145-6856 x4

5) **Seal, Valve Exhaust**
- B145-6858 x4

Valve Train Kit
- a) 45 b) 30
- a) BVTK553
- b) BVTK554

1) Valve, Intake
- a) 45 b) 30
- 1a) B138-2052 x4
- 1b) B145-6855 x4

2) Valve, Exhaust
- 2a) B138-2050 x4
- 2b) B145-6857 x4

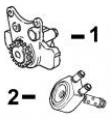
3) Guide, Valve

a) Intake

b) Exhaust
- 3a) B185-0882 x4
- 3b) B163-9256 x4

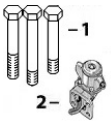
4) Spring, Valve
- B206-4127 x8

5) Lock, Valve
- B147-1979 x16



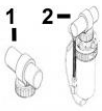
1) **Oil Pump**
- B6I-0912
- B7C-3134 5

2) **Oil Cooler**
- B245-1372 4
- B247-6318 4



1) **Cylinder Head Bolt**
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) **Lift Pump**
- B201-0877



Fuel Pump
- 1) B228-9129 (2 Pin) 4
- 2) B349-1063 (3 Pin) 4

1) **Water Pump**
- B239-6142

2) **Water Pump Gasket**
- B201-8745

3) **Thermostat**
- B216-9737 4
- B220-2748 4

4) **Thermostat Assembly**
- B220-2749 4

1) **Piston Cooling Nozzle**
- B148-3026

2) **Turbocharger**
- B219-9766 4
- B219-9773 4
- B219-7618 4

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF

(2): To ESN: 5YS11021.

(3): From ESN: 5YS11022.

(4): Check application for proper use.

(5): Use for engines that have a crank driven balancer unit

CATERPILLAR 3054 ESN 5YS13499-UP

Engine Model:
3054

Engine Desc:
TURBOCHARGE or NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **572** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK505/45
- BOK505/30

2) **Basic Engine Kit**
- BBK505
- SPEC SHEET - 3054

Piston-Liner Kit
- BCK390

Consist of:
- a) B152-1390
- b) B138-2073
- c) B111-1815 1

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

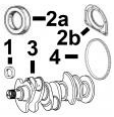
Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 6
- B233-3788 0.010 6
- B233-3789 0.020 6
- B233-3790 0.030 6

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



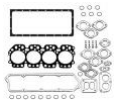
1) **Front Seal**
- B4W-5359

2a) **Rear Seal**
- B4W-5360 2

2b) **Rear Seal**
- B209-9218 3

3) **Crankshaft Kit**
- B254-0252

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T



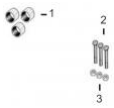
1) **Top Gasket Set**
- B175-1321

2) **Bottom Gasket Set**
- B187-4968

3) **Valve Cover Gsk**
- B200-6374

4) **Head Gasket**
- B160-0161

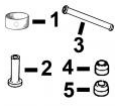
5) **Oil Pan Gasket**
- B032-9946



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8

3) **Con Rod**
- B225-5453 6 4



1) **Bushing, Cam**
- B036-5802 x1

2) **Tappet**
- B138-2053

3) **Pushrod**
- B067-6095

4) **Seal, Valve Intake**
- B145-6856 x4

5) **Seal, Valve Exhaust**
- B145-6858 x4

Valve Train Kit
- a) 45 b) 30
- a) BVTK553
- b) BVTK554

1) Valve, Intake
- a) 45 b) 30
- 1a) B138-2052 x4
- 1b) B145-6855 x4

2) Valve, Exhaust
- 2a) B138-2050 x4
- 2b) B145-6857 x4

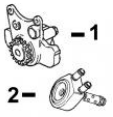
3) Guide, Valve

a) Intake

b) Exhaust
- 3a) B185-0882 x4
- 3b) B163-9256 x4

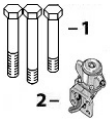
4) Spring, Valve
- B206-4127 x8

5) Lock, Valve
- B147-1979 x16



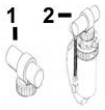
1) **Oil Pump**
- B6I-0912
- B7C-3134 8

2) **Oil Cooler**
- B245-1372 7
- B247-6318 7



1) **Cylinder Head Bolt**
- B7W-2518 x8
- B7W-2519 x12
- B7W-2520 x2

2) **Lift Pump**
- B201-0877



Fuel Pump
- 1) B228-9129 (2 Pin) 7
- 2) B349-1063 (3 Pin) 7

1) **Water Pump**
- B239-6142

2) **Water Pump Gasket**
- B201-8745

3) **Thermostat**
- B216-9737 7
- B220-2748 7

4) **Thermostat Assembly**
- B220-2749 7

1) **Piston Cooling Nozzle**
- B148-3026

2) **Turbocharger**
- B219-9766 7
- B219-9773 7
- B219-7618 7

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF

(2): To ESN: 5YS11021

(3): From ESN: 5YS11022

(4): Fracture Split Type.

(5): For machine split rods use Con Rod Bearing B4P-9944

(6): Use for rods that have a 63.5mm rod journal.

(7): Check application for proper use.

(8): Use for engines that have a crank driven balancer unit

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054B	NATURALLY ASPIRATED	INDUSTRIAL ENGINE	4 Cyl	Bore: 4.055 in / 103.00 mm Stroke: 5.00 in / 127.00 mm

ESN

5YS13499-UP

Engine Arrangement

185-0462
185-1651
185-3173
185-3197
185-3969
185-3972
185-4092
185-4093
185-4388
185-4624
185-4788
185-5465
191-5836

1) Engine O/H Kit
- BOK506 Std.
- BOK508 0.50
- BOK509 1.00

2) Basic Engine Kit
- BBK506 Std.
- BBK508 0.50
- BBK509 1.00
- SPEC SHEET - 3054B

a) Piston
- B185-0104 Std.
- B185-0106 0.50
- B185-0107 1.00

b) Ring Set
- B185-0109 Std.
- B185-0110 0.50
- B185-0111 1.00

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

Set of 4 Pairs

Con Rod Bearing Set
- B4P-9944 Std.
- B4P-9945 0.010
- B4P-9946 0.020
- B4P-9947 0.030

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

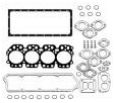
1) Front Seal
- B4W-5359

2a) Rear Seal
- B4W-5360 [1]

2b) Rear Seal
- B209-9218 [2]

3) Crankshaft Kit
- B4P-9948

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T

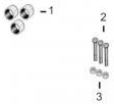


1) Top Gasket Set
- B187-1290

2) Bottom Gasket Set
- B187-4968

3) Valve Cover Gsk
- B200-6374

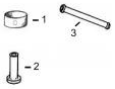
4) Head Gasket
- B185-0885



1) Bush, Con Rod
- B138-2048 x4

2) Bolt, Con Rod
- B067-6883 x8

3) Nut, Con Rod
- B7W-2505 x8



1) Bushing, Cam
- B036-5802 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

1) Seal, Valve Intake
- B154-6856 x4

2) Seal, Valve Ex
- B154-6858 x4

Valve Train Kit
- BVTK555

1) Valve, Intake
- B176-3134 x4

2) Valve, Exhaust
- B176-3137 x4

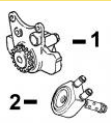
3) Guide, Valve

a) Intake

b) Exhaust
- 3a) B185-0882 x4
- 3b) B163-9256 x4

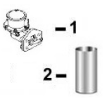
4) Spring, Valve
- B176-3139 x8

5) Lock, Valve
- B147-1979 x16



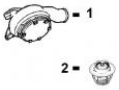
1) Oil Pump
- B6I-0253
- B7C-3134 [4]

2) Oil Cooler
- B245-1372 [3]
- B247-6318 [3]



1) Lift Pump
- B201-0877

Repair Sleeve
- 103RS



1) Water Pump
- B239-6142

2) Thermostat
- B220-2748

Fuel Lines
- 1) B230-8995
- 2) B230-8996
- 3) B230-8997
- 4) B230-8998

1) Cylinder Head Bolt
- B7W-2519 x4

2) Piston Cooling Nozzle
- B148-3026

(1): To ESN: 5MF1183.
(2): From ESN: 5MF1184.
(3): Check application for proper usage
(4): For engines with balancer unit.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054B	NATURALLY ASPIRATED	INDUSTRIAL ENGINE	4 Cyl	Bore: 4.055 in / 103.00 mm Stroke: 5.00 in / 127.00 mm

ESN	Arrangement Number
5MF10870-UP	187-8016

1) Engine O/H Kit
- BOK507 Std.
- BOK510 0.50
- BOK511 1.00

2) Basic Engine Kit
- BBK507 Std.
- BBK510 0.50
- BBK511 1.00
- SPEC SHEET - 3054B

a) Piston
- B185-0104 Std.
- B185-0106 0.50
- B185-0107 1.00

b) Ring Set
- B185-0109 Std.
- B185-0110 0.50
- B185-0111 1.00

4 Per Engine

Main Bearing Set
- B067-6869 Std.
- B033-2379 0.010
- B033-2380 0.020
- B033-2381 0.030

Set of 4 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

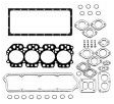
1) Front Seal
- B4W-5359

2a) Rear Seal
- B4W-5360 1

2b) Rear Seal
- B209-9218 2

3) Crankshaft Kit
- B254-0252

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T

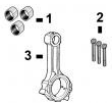


1) Top Gasket Set
- B187-1290

2) Bottom Gasket Set
- B187-4968

3) Valve Cover Gsk
- B200-6374

4) Head Gasket
- B185-0885



1) Bush, Con Rod
- B225-5438 x4

2) Bolt, Con Rod
- B225-5439 x8

3) Con Rod
- B225-5453 4 3

1) Bushing, Cam
- B036-5802 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

1) Seal, Valve Intake
- B154-6856 x4

2) Seal, Valve Ex
- B154-6858 x4

Valve Train Kit
- BVTK555

1) Valve, Intake
- B176-3134 x4

2) Valve, Exhaust
- B176-3137 x4

3) Guide, Valve
a) Intake
b) Exhaust
- 3a) B185-0882 x4
- 3b) B163-9256 x4

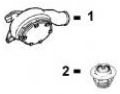
4) Spring, Valve
- B176-3139 x8

5) Lock, Valve
- B147-1979 x16

1) Oil Pump
- B6I-0253
- B7C-3134 5

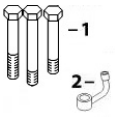
2) Oil Cooler
- B245-1372

Lift Pump
- B201-0877



1) Water Pump
- B239-6142

2) Thermostat
- B220-2748



1) Cylinder Head Bolt
- B7W-2519 x4

2) Piston Cooling Nozzle
- B148-3026

Repair Sleeve
- 103RS

(1): To ESN: 5MF1183.
(2): From ESN: 5MF1184.
(3): Fracture Split Type: Grade J.
(4): Use for rods that have a 63.5mm rod journal.
(5): For engines with a balancer unit.

CATERPILLAR 3054C/E ESN 3341-UP

Engine Model:
3054C/E

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

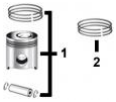
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **573** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK512 Std.
- BOK513 0.50
- BOK514 1.00

2) **Basic Engine Kit**
- BBK512 Std.
- BBK513 0.50
- BBK514 1.00
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

2) **Ring Set**
- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314

1) **Top Gasket Set**
- B276-3420

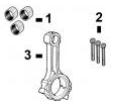
2) **Bottom Gasket Set**
- B233-0333 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B226-8766

6) **Oil Pan Gasket**
- B225-6005



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8

3) **Con Rod**
- B225-5453 4

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-1846

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Valve Ex**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-1846KIT

Valve Train Kit
- BVTK557

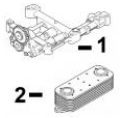
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B233-7222 5 plates 5

1) **Lift Pump**
- B350-4315

2) **Lift Pump**
- B232-7808 5

3) **Fuel Pump**
- B228-9129 (2 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019

Repair Sleeve
- 105RS

2) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Injector**
- B266-6830 5

3) **Piston Cooling Nozzle**
- B276-5605

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Bottom gasket contains: B226-8766 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

Engine Model:
3054C/E

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

ESN
3341-UP

Compact Track Loaders
RC-85

Eco Log
554B - Forwarder

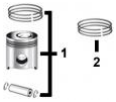
Engine Arrangement
207-1101
207-1102

1) **Engine O/H Kit**
- BOK515 Std. 4
- BOK516 0.50 4
- BOK517 1.00 4

(Rod Brg OD 68 mm)
- BOK515S Std. 8
- BOK516S 0.50 8
- BOK517S 1.00 8

2) **Basic Engine Kit**
- BBK515 Std. 4
- BBK516 0.50 4
- BBK517 1.00 4

(Rod Brg OD 68 mm)
- BBK515S Std. 8
- BBK516S 0.50 8
- BBK517S 1.00 8
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

2) **Ring Set**
- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 8
- B468-7762 0.010 8
- B468-7769 0.020 8
- B468-7770 0.030 8

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

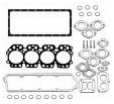
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

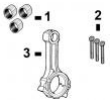
2) **Bottom Gasket Set**
- B237-5942 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B225-8287

6) **Oil Pan Gasket**
- B237-5932



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**
- B225-5453 4
- B359-0722 8

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-1846

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-1846KIT

Valve Train Kit
- BVTK557

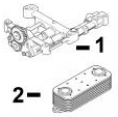
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B233-7222 5 plates 5

1) **Lift Pump**
- B350-4315

2) **Lift Pump**
- B232-7808 5

3) **Fuel Pump**
- B228-9129 (2 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019

Repair Sleeve
- 105RS

2) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Injector**
- B266-6830 5

3) **Piston Cooling Nozzle**
- B276-5605

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Bottom gasket contains: B225-8287 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Use for rods that have a 68mm rod journal.

CATERPILLAR 3054C/E ESN CRS1-UP

Engine Model:
3054C/E

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

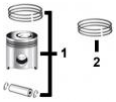
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page **574** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK530 Std.
- BOK531 0.50
- BOK532 1.00

2) **Basic Engine Kit**
- BBK530 Std.
- BBK531 0.50
- BBK532 1.00
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

2) **Ring Set**
- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

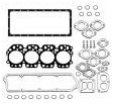
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

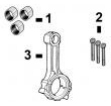
2) **Bottom Gasket Set**
- B272-2232 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B225-8287

6) **Oil Pan Gasket**
- B225-6005



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**
- B225-5453 8
- B359-0722 9

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-1846

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-1846KIT

Valve Train Kit
- BVTK557

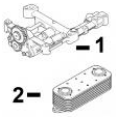
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B233-7222 5

1) **Lift Pump**
- B350-4315

2) **Lift Pump**
- B232-7808 5

3) **Fuel Pump**
- B228-9129 (2 Pin) 5

4) **Fuel Pump**
- B349-1063 8 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019

Repair Sleeve
- 105RS

2) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Injector**
- B266-6830 5

3) **Piston Cooling Nozzle**
- B276-5605

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Bottom gasket contains: B225-8287 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(4): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Use for rods that have a 63.5mm rod journal.

(9): Use for rods that have a 68mm rod journal.

CATERPILLAR 3054C/E NATURALLY ASPIRATED

Engine Model:
3054C/E

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

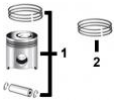
Eco Log
554B - Forwarder

1) **Engine O/H Kit**
- BOK560 Std. 4
- BOK561 0.50 4
- BOK562 1.00 4

(Rod Brg OD 68 mm)
- BOK560S Std. 8
- BOK561S 0.50 8
- BOK562S 1.00 8

2) **Basic Engine Kit**
- BBK560 Std. 4
- BBK561 0.50 4
- BBK562 1.00 4

(Rod Brg OD 68 mm)
- BBK560S Std. 8
- BBK561S 0.50 8
- BBK562S 1.00 8
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

2) **Ring Set**
- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 8
- B468-7762 0.010 8
- B468-7769 0.020 8
- B468-7770 0.030 8

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

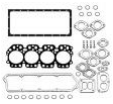
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

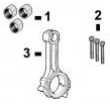
2) **Bottom Gasket Set**
- B290-2495 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B226-8766

6) **Oil Pan Gasket**
- B237-5932



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8

3) **Con Rod**
- B225-5453 9 2
- B359-0722 10

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-1846

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-1846KIT

Valve Train Kit
- BVTK557

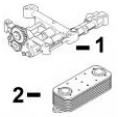
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B233-7222 5

1) **Lift Pump**
- B350-4315

2) **Lift Pump**
- B232-7808 5

3) **Fuel Pump**
- B228-9129 (2 Pin) 5

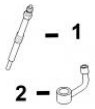
1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019

Repair Sleeve
- 105RS

2) **Head Bolts**
- B225-5501 x7
- B225-5502 x3



1) **Glowplug**
- B453-3510 x4

2) **Piston Cooling Nozzle**
- B148-3026

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Bottom gasket contains: B226-8766 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Use for rods that have a 68mm rod journal.

(9): Use for cranks with 63.5mm journal.

(10): Use for cranks with 68mm journal.

Engine Model:
3054C/E

Engine Desc:
TURBOCHARGED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

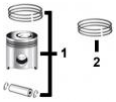
Please see page **575** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK518 Std. 4
- BOK519 0.50 4
- BOK520 1.00 4

(Rod Brg OD 68 mm)
- BOK518S .Std 9
- BOK519S 0.50 9
- BOK520S 1.00 9

2) **Basic Engine Kit**
- BBK518 Std. 4
- BBK519 0.50 4
- BBK520 1.00 4

(Rod Brg OD 68 mm)
- BBK518S .Std 9
- BBK519S 0.50 9
- BBK520S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

2) **Ring Set**
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 .Std 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

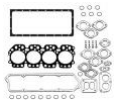
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

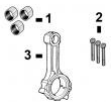
2) **Bottom Gasket Set**
- B233-0333 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B226-8766

6) **Oil Pan Gasket**
- B225-6005 3



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**
- B225-5453 4
- B359-0722 9

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-2374

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-2374KIT

Valve Train Kit
- BVTK557

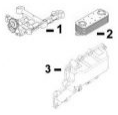
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B225-6817

3) **Oil Cooler Assembly**
- B354-1274 8

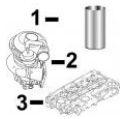
1) **Lift Pump**
- B350-4315
- B232-7808 5

2) **Fuel Pump**
- B228-9129 (2 Pin) 5
- B349-1063 (3 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**
- B232-7519UF

4) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Injector**
- B230-8999 5

3) **Piston Cooling Nozzle**
- B276-5605

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Industrial Application. Bottom gasket contains: B226-8766 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Includes 9 plate oil cooler core

(9): Use for rods that have a 68mm rod journal.

Engine Model:
3054C/E

Engine Desc:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

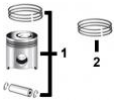
Please see page **576** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK521 Std. 4
- BOK522 0.50 4
- BOK523 1.00 4

(Rod Brg OD 68 mm)
- BOK521S Std. 9
- BOK522S 0.50 9
- BOK523S 1.00 9

2) **Basic Engine Kit**
- BBK521 Std. 4
- BBK522 0.50 4
- BBK523 1.00 4

(Rod Brg OD 68 mm)
- BBK521S Std. 9
- BBK522S 0.50 9
- BBK523S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

2) **Ring Set**
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

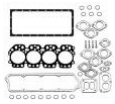
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

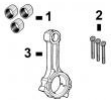
2) **Bottom Gasket Set**
- B237-5942 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B225-8287

6) **Oil Pan Gasket**
- B237-5932



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**
- B225-5453 4
- B359-0722 9

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-2374

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-2374KIT

Valve Train Kit
- BVTK557

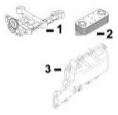
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B225-6817

3) **Oil Cooler Assembly**
- B354-1274 8

1) **Lift Pump**
- B350-4315

2) **Fuel Pump**
- B232-7808 5
- B228-9129 (2 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019

1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**
- B232-7519UF

4) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Injector**
- B230-8999 5

3) **Piston Cooling Nozzle**
- B276-5605

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Non Industrial Application. Bottom gasket contains: B225-8287 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Includes 9 plate oil cooler core.

(9): Use for rods that have a 68mm rod journal.

Engine Model:
3054C/E

Engine Desc:
TURBOCHARGED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

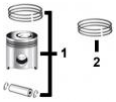
Please see page **577** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK533 Std. 4
- BOK534 0.50 4
- BOK535 1.00 4

(Rod Brg OD 68 mm)
- BOK533S Std. 9
- BOK534S 0.50 9
- BOK535S 1.00 9

2) **Basic Engine Kit**
- BBK533 Std. 4
- BBK534 0.50 4
- BBK535 1.00 4

(Rod Brg OD 68 mm)
- BBK533S Std. 9
- BBK534S 0.50 9
- BBK535S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

2) **Ring Set**
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

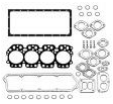
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

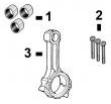
2) **Bottom Gasket Set**
- B272-2232 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B225-8287

6) **Oil Pan Gasket**
- B225-6005



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**
- B225-5453 4
- B359-0722 9

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-2374

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-2374KIT

Valve Train Kit
- BVTK557

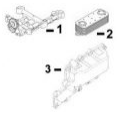
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B225-6817

3) **Oil Cooler Assembly**
- B354-1274 8

1) **Lift Pump**
- B350-4315
- B232-7808 5

2) **Fuel Pump**
- B228-9129 (2 Pin) 5
- B349-1063 (3 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019

1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**
- B232-7519UF

4) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Injector**
- B230-8999 5
- B236-1674 5

3) **Piston Cooling Nozzle**
- B148-3026 5
- B276-5605 5

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Bottom gasket contains: B225-8287 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Includes 9 plate oil cooler core.

(9): Use for rods that have a 68mm rod journal.

CATERPILLAR 3054C/E TURBOCHARGED

Engine Model:
3054C/E

Engine Desc:
TURBOCHARGED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Engine Arrangement
230-5539
296-0885
296-0886
232-9761

ESN
BLN
CRX107-UP
CRS
FDP
E4M
G4D
J1Z
304

Caterpillar
PS150C - Pneumatic Roller
PS300C - Pneumatic Roller
PS360C - Pneumatic Roller

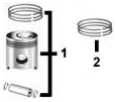
Eco Log
554B - Forwarder

1) **Engine O/H Kit**
- BOK563 Std. 4
- BOK564 0.50 4
- BOK565 1.00 4

(Rod Brg OD 68 mm)
- BOK563S .Std 9
- BOK564S 0.50 9
- BOK565S 1.00 9

2) **Basic Engine Kit**
- BBK563 Std. 4
- BBK564 0.50 4
- BBK565 1.00 4

(Rod Brg OD 68 mm)
- BBK563S .Std 9
- BBK564S 0.50 9
- BBK565S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**
- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

2) **Ring Set**
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

4 Per Engine

Main Bearing Set
- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

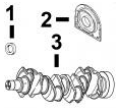
Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 .Std 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

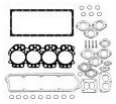


1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 6
- B359-0715 7

4) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

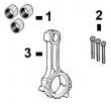
2) **Bottom Gasket Set**
- B290-2495 3

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gsk**
- B225-6451

5) **Timing Cover Gsk**
- B226-8766

6) **Oil Pan Gasket**
- B237-5932



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8

3) **Con Rod**
- B225-5453 2

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-2374

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

5) **Seal, Exhaust Valve**
- B252-6438 x4

6) **Seal, Intake Valve**
- B254-3954 x4

7) **Cam and Lifter Kit**
- B350-2374KIT

Valve Train Kit
- BVTK557

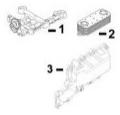
1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

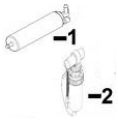
5) **Lock, Valve**
- B147-1979 x16



1) **Oil Pump**
- B225-8329 1

2) **Oil Cooler**
- B225-6817

3) **Oil Cooler Assembly**
- B354-1274 8



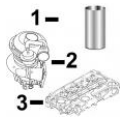
1) **Lift Pump**
- B350-4315

2) **Fuel Pump**
- B228-9129 (2 Pin) 5
- B349-1063 (3 Pin) 5

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267 5
- B254-2268 5
- B254-2269 5

Water Pump Gasket
- B225-8019



1) **Repair Sleeve**
- 105RS

2) **Turbocharger**
- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**
- B232-7519UF

4) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510 x4

2) **Piston Cooling Nozzle**
- B148-3026

(1): Not to be used on Engines with Balancer Units.

(2): Use for cranks that have a 63.5mm journal.

(3): Bottom gasket contains: B226-8766 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Includes 9 plate oil cooler core.

(9): Use for rods that have a 68mm rod journal.

Engine Model:
3054C/E

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in3/ 4.4Lt

Please see page **578** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK1898
- BOK1902 0.50
- BOK1906 1.00

2) **Basic Engine Kit**
- BBK1898
- BBK1902 0.50
- BBK1906 1.00
- SPEC SHEET - 3054 C-E

Piston & Ring Kit
- B508-1898 Std.
- B508-1902 0.50
- B508-1906 1.00

Main Bearing Set
- B353-7423 Std.
- B353-7424 0.010
- B353-7425 0.020
- B353-7426 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B360-3986 Std. 1
- B468-7762 0.010 1
- B468-7769 0.020 1
- B468-7770 0.030 1

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

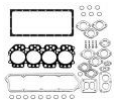
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B359-0715 3

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- B276-3420

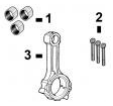
2) **Bottom Gasket Set**
- B272-2232

3) **Head Gasket**
- B240-7194

4) **Valve Cover Gasket**
- B225-6451

5) **Timing Cover Gsk**
- B225-8287

6) **Oil Pan Gasket**
- B225-6005



1) **Bush, Con Rod**
- B276-7478 x4

2) **Bolt, Con Rod**
- B323-9312 x8

3) **Connecting Rod**
- B331-0290 X4

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B350-2374

3) **Tappet**
- B138-2053 x8

4) **Pushrod**
- B067-6095 x8

5) **Seal, Valve Exhaust**
- B254-3954 x4

6) **Seal, Valve Intake**
- B252-6438 X4

7) **Cam and Lifter Kit**
- B350-2374KIT

Valve Train
- BVTK557

1) **Valve, Intake**
- B225-5495 x4

2) **Valve, Exhaust**
- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**
- 3) B185-0882 x8

4) **Spring, Valve**
- B225-5496 x8

5) **Lock, Valve**
- B147-1979 x16

1) **Oil Pump**
- B225-8329 2

2) **Oil Cooler**
- B225-6817

3) **Oil Cooler Assembly**
- B354-1274 4

4) **Balancer Unit Incl. Oil Pump**
- B234-0615 2

1) **Lift Pump**
- B350-4315 2
- B232-7808 2

2) **Fuel Pump**
- B228-9129 (2pin) 2
- B349-1063 (3 Pin) 2

1) **Water Pump**
- B225-8016

2) **Thermostat**
- B254-2267

3) **Water Pump Gasket**
- B225-8019

Repair Sleeve
- 1) 105RS

2) **Turbocharger**
- B237-3786 2
- B234-2988 2

3) **Cylinder Head**
- B232-7519UF

4) **Head Bolts**
- B225-5501 x7
- B225-5502 x3

1) **Glowplug**
- B453-3510

2) **Injector**
- B236-1674 2

3) **Piston Cooling Nozzle**
- B276-5605

Fuel Lines
- 1) B230-8995
- 2) B230-8996
- 3) B230-8997
- 4) B230-8998

(1): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.
(2): Check application for proper use.
(3): 68mm rod journal, non-splined nose
(4): Includes 9 plate oil cooler core.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3056	NATURALLY ASPIRATED	INDUSTRIAL ENGINE	6 Cyl	Bore: 3.937 in / 100.00 mm

ESN
1ML1-UP

Engine Arrangement
6I-2217
108-0497
6I-2222

1) **Engine O/H Kit**
- BOK700

2) **Basic Engine Kit**
- BBK700
- SPEC SHEET - 3056

Piston-Liner Kit
- BCK264

Consist of:
- a) B135-0264
- b) B146-1780
- c) B6I-0164 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B7W-4816 Std.
- B7W-4817 0.010
- B7W-4818 0.020
- B7W-4819 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B4W-5360

3) **Crankshaft Kit**
- B193-0159

4) **Ring Gear**
- B033-7687 126T

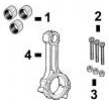
5) **Crankshaft Gear**
- B6I-0223

1) **Top Gasket Set**
- B103-0081

2) **Bottom Gasket Set**
- B103-0080

3) **Head Gasket**
- B6I-3875

4) **Valve Cover Gasket**
- B126-2238

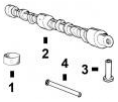


1) **Bush, Con Rod**
- B067-6158 x6

2) **Bolt, Con Rod**
- B067-6883 x12

3) **Nut, Con Rod**
- B7W-2505 x12

4) **Con Rod**
- B067-6879



1) **Bushing, Cam**
- B036-5802 x1

2) **Camshaft**
- B6I-4353

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

Valve Train Kit
- BVTK750

1) Valve, Intake
- B6I-0282 x6

2) Valve, Exhaust
- B7W-4602 x6

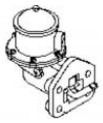
3) Guide, Valve
a) Intake
b) Exhaust
- 3a) B160-5436 x6
- 3b) B160-5438 x6

4) Spring, Valve
a) Inner
b) Outer
- 4a) B6I-0284 x12
- 4b) B6I-0283 x12

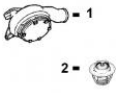
5) Lock, Valve
- B067-6834 x24

6) Seal, Valve
- B1W-5849 X12

Oil Pump
- B100-3717



Lift Pump
- B132-9447



1) **Water Pump**
- B149-0539

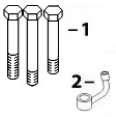
2) **Thermostat**
- B4W-8063

1) **Heater Plug**
- B035-8059

2) **Rocker Arm LH**
- B150-1217

3) **Rocker Arm RH**
- B150-1218

4) **Cylinder Head**
- B150-8683UF 2



1) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

2) **Piston Cooling Nozzle**
- B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I- **(2):** Check arrangement for proper application.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3056T	TURBOCHARGED	INDUSTRIAL ENGINE	6 Cyl	Bore: 3.937 in / 100.00 mm

ESN	Olympian		Engine Arrangement	
1ML1-UP	GEP88SP1	GEP110	6I-2218	6I-2219
			6I-2223	6I-2224
			103-8804	

1) **Engine O/H Kit**
- BOK701/45
- BOK701/30

2) **Basic Engine Kit**
- BBK701
- SPEC SHEET - 3056

Piston-Liner Kit
- BCK553

Consist of:
- a) B107-2553
- b) B112-7020
- c) B6I-0164 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

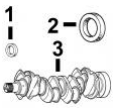
Set of 7 Pairs

Con Rod Bearing Set
- B7W-4816 Std.
- B7W-4817 0.010
- B7W-4818 0.020
- B7W-4819 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B4W-5360

3) **Crankshaft Kit**
- B193-0159

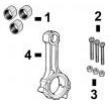
4) **Crankshaft Gear**
- B6I-0223

1) **Top Gasket Set**
- B103-0081

2) **Bottom Gasket Set**
- B103-0080

3) **Head Gasket**
- B6I-3875

4) **Valve Cover Gasket**
- B126-2238

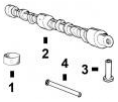


1) **Bush, Con Rod**
- B7W-2510 x6

2) **Bolt, Con Rod**
- B067-6883 x12

3) **Nut, Con Rod**
- B7W-2505 x12

4) **Con Rod**
- B7W-2514



1) **Bushing, Cam**
- B036-5802 x1

2) **Camshaft**
- B6I-4353

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

Valve Train Kit
- a) 45 b) 30
- a) BVTK751
- b) BVTK754

1) Valve, Intake
- a) 45 b) 30
- 1a) B6I-1196 x6
- 1b) B100-4626

2) Valve, Exhaust
- B7W-4602 x6

3) Guide, Valve

a) Intake

b) Exhaust
- 3a) B160-5436 x6
- 3b) B160-5438 x6

4) Spring, Valve

a) Inner

b) Outer
- 4a) B6I-0284 x12
- 4b) B6I-0283 x12

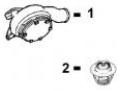
5) Lock, Valve
- B067-6834 x24

6) Seal, Valve
- B1W-5849 X12

Oil Pump
- B100-3717

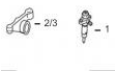
1) **Lift Pump**
- B132-9447

2) **Turbocharger**
- B132-9447



1) **Water Pump**
- B149-0539

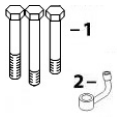
2) **Thermostat**
- B4W-8063



1) **Heater Plug**
- B035-8059

2) **Rocker Arm LH**
- B150-1217

3) **Rocker Arm RH**
- B150-1218



1) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

2) **Piston Cooling Nozzle**
- B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I-

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3056T	TURBOCHARGED	INDUSTRIAL ENGINE	6 Cyl	Bore: 3.937 in / 100.00 mm

Olympian

GEP105SP1
GEP150
GEP150-1
GEP165
GEP165-1
GEP188-1

1) **Engine O/H Kit**
- BOK706

2) **Basic Engine Kit**
- BBK706
- SPEC SHEET - 3056

Piston-Liner Kit
- BCK529

Consist of:
- a) B124-3529
- b) B112-7020
- c) B111-1815 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

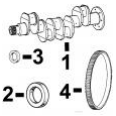
Set of 7 Pairs

Con Rod Bearing Set
- B7W-4816 Std.
- B7W-4817 0.010
- B7W-4818 0.020
- B7W-4819 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B4W-5360

3) **Crankshaft Kit**
- B193-0159

4) **Ring Gear**
- B033-7687 126T

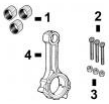
5) **Crankshaft Gear**
- B6I-0223

1) **Top Gasket Set**
- B103-0081

2) **Bottom Gasket Set**
- B103-0080

3) **Head Gasket**
- B6I-3875

4) **Valve Cover Gasket**
- B126-2238

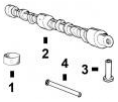


1) **Bush, Con Rod**
- B124-3531 x6

2) **Bolt, Con Rod**
- B124-3532 x12

3) **Dowel, Con Rod**
- B124-3533 x12

4) **Con Rod**
- B124-3530



1) **Bushing, Cam**
- B036-5802 x1

2) **Camshaft**
- B6I-4353

3) **Tappet**
- B138-2053

4) **Pushrod**
- B067-6095

Valve Train Kit
- BVTK754

1) **Valve, Intake**
- B100-4626 x6 2

2) **Valve, Exhaust**
- B7W-4602 x6

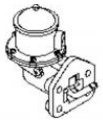
3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B160-5436 x6
- 3b) B160-5438 x6

4) **Spring, Valve**
a) Inner
b) Outer
- 4a) B6I-0284 x12
- 4b) B6I-0283 x12

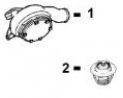
5) **Lock, Valve**
- B067-6834 x24

6) **Seal, Valve**
- B1W-5849 X12

Oil Pump
- B100-3717

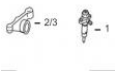


Lift Pump
- B132-9447



1) **Water Pump**
- B149-0539

2) **Thermostat**
- B4W-8063



1) **Heater Plug**
- B035-8059

2) **Rocker Arm LH**
- B150-1217

3) **Rocker Arm RH**
- B150-1218

1) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

2) **Piston Cooling Nozzle**
- B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I-0164UF.(2) 30 de

Engine Model:
3056

Engine Desc:
TURBOCHARGE or NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

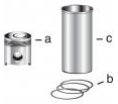
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **579** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK702/45
- BOK702/30

2) **Basic Engine Kit**
- BBK702
- SPEC SHEET - 3056



Piston-Liner Kit
- BCK390

Consist of:
- a) B152-1390
- b) B138-2073
- c) B111-1815 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

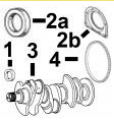
Set of 7 Pairs

Con Rod Bearing Set
- B7W-4816 Std.
- B7W-4817 0.010
- B7W-4818 0.020
- B7W-4819 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2a) **Rear Seal**
- B4W-5360

2b) **Rear Seal**
- B209-9218

3) **Crankshaft Kit**
- B193-0159

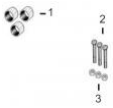
4) **Ring Gear**
- B033-7687 126T

5) **Crankshaft Gear**
- B6I-0223

1) **Top Gasket Set**
- B187-1963

2) **Bottom Gasket Set**
- B232-3073

3) **Head Gasket**
- B6I-3875



1) **Bush, Con Rod**
- B138-2048 x6

2) **Bolt, Con Rod**
- B067-6883 x12
- B124-3532 x12 2

3) **Nut, Con Rod**
- B7W-2505 x12

1) **Bushing, Cam**
- B036-5802 x1

2) **Tappet**
- B138-2053

3) **Pushrod**
- B067-6095

4) **Seal, Valve Intake**
- B145-6856 x6

5) **Seal, Valve Exhaust**
- B145-6858 x6

6) **Camshaft**
- B360-3197 2

Valve Train Kit
- a) 45 b) 30
- a) BVTK752
- b) BVTK753

1) **Valve, Intake**
- a) 45 b) 30
- 1a) B138-2052 x6
- 1b) B145-6855 x6

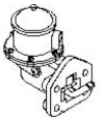
2) **Valve Exhaust**
- 2a) B138-2050 x6
- 2b) B145-6857 x6

3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B185-0882 x6
- 3b) B163-9256 x6

4) **Spring, Valve**
- B206-4127 x12

5) **Lock, Valve**
- B147-1979 x24

Oil Pump
- B100-3717



Lift Pump
- B132-9447

1) **Water Pump**
- B239-6142

2) **Water Pump Gasket**
- B201-8745

3) **Thermostat**
- B4W-8063 2
- B220-2748 2

4) **Thermostat Assembly**
- B220-2749 2

1) **Thermostat**
- B216-9737

2) **Piston Cooling Nozzle**
- B148-3026

3) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) To ESN: 7MS1285.(3) From E
(2): Check for proper build application.
(3): Contains B360-3197 x 1 and B138-2053 x 12.

Engine Model:
3056

Engine Desc:
TURBOCHARGE or NATURALLY ASPIRATED

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page **580** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK703/45
- BOK703/30

2) **Basic Engine Kit**
- BBK703
- SPEC SHEET - 3056

Piston-Liner Kit
- BCK390

Consist of:
- a) B152-1390
- b) B138-2073
- c) B111-1815 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

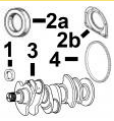
Set of 7 Pairs

Con Rod Bearing Set
- B236-4397 Std.
- B236-4397A 0.010
- B236-4397B 0.020
- B236-4397C 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2a) **Rear Seal**
- B4W-5360

2b) **Rear Seal**
- B209-9218

3) **Crankshaft Kit**
- B193-0159

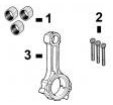
4) **Ring Gear**
- B033-7687 126T

5) **Crankshaft Gear**
- B6I-0223

1) **Top Gasket Set**
- B187-1963

2) **Bottom Gasket Set**
- B232-3073

3) **Head Gasket**
- B6I-3875



1) **Bush, Con Rod**
- B225-5438 x6

2) **Bolt, Con Rod**
- B225-5439 x12

3) **Con Rod**
- B225-5453 4

1) **Bushing, Cam**
- B036-5802 x1

2) **Tappet**
- B138-2053

3) **Pushrod**
- B067-6095

4) **Seal, Valve Intake**
- B145-6856 x6

5) **Seal, Valve Exhaust**
- B145-6858 x6

6) **Camshaft**
- B360-3197 2

Valve Train Kit
- a) 45 b) 30
- a) BVTK752
- b) BVTK753

1) **Valve, Intake**
- a) 45 b) 30
- 1a) B138-2052 x6
- 1b) B145-6855 x6

2) **Valve, Exhaust**
- 2a) B138-2050 x6
- 2b) B145-6857 x6

3) **Guide, Valve**

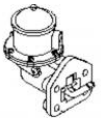
a) Intake

b) Exhaust
- 3a) B185-0882 x6
- 3b) B163-9256 x6

4) **Spring, Valve**
- B206-4127 x12

5) **Lock, Valve**
- B147-1979 x24

Oil Pump
- B100-3717



Lift Pump
- B132-9447

1) **Water Pump**
- B239-6142

2) **Water Pump Gasket**
- B201-8745

3) **Thermostat**
- B4W-8063 2
- B220-2748 2

4) **Thermostat Assembly**
- B220-2749 2

1) **Thermostat**
- B216-9737

2) **Piston Cooling Nozzle**
- B148-3026

3) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) To ESN: 7MS1285.(3) From ESN: 7M1286.(4) Grage J; Fracture Split Type ESN

(2): Check build for proper application.

(3): Contains B360-3197 x 1 and B138-2053 x 12.

(4): Use for rods that have a 63.5mm rod journal.

Engine Model:
3056E

Engine Desc:
TURBOCHARGE

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm
Stroke: 5.00 in / 127.00 mm
Compression Ratio:17.25:1

Please see page **581** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK704

2) **Basic Engine Kit**
- BBK704
- SPEC SHEET - 3056E

Piston-Liner Kit
- BCK323

Consist of:
- a) B216-8323
- b) B217-1573
- c) B111-1815 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

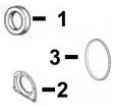
Set of 7 Pairs

Con Rod Bearing Set
- B7W-4816 Std.
- B7W-4817 0.010
- B7W-4818 0.020
- B7W-4819 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B209-9218

3) **Ring Gear**
- B033-7687 126T

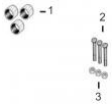
1) **Top Gasket Set**
- B216-9612

2) **Bottom Gasket Set**
- B236-6930

3) **Head Gasket**
- B240-0205

4) **Valve Cover Gasket**
- B216-9604

5) **Oil Pan Gasket**
- B6I-4710



1) **Bush, Con Rod**
- B138-2048 x6

2) **Bolt, Con Rod**
- B067-6883 x12

3) **Nut, Con Rod**
- B7W-2505 x12

1) **Bushing, Cam**
- B036-5802 x1

2) **Tappet**
- B138-2053

3) **Pushrod**
- B067-6095

4) **Seal, Valve Intake**
- B145-6856 x6

5) **Seal, Valve Exhaust**
- B145-6858 x6

6) **Camshaft**
- B360-3197 2

Valve Train Kit
- BVTK755

1) **Valve, Intake**
- B145-6855 x6

2) **Valve, Exhaust**
- B138-2050 x6

3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B185-0882 x6
- 3b) B163-9256 x6

4) **Spring, Valve**
- B206-4127 x12

5) **Lock, Valve**
- B147-1979 x24

1) **Oil Pump**
- B216-8625

2) **Oil Cooler**
- B175-3915

1) **Lift Pump**
- B216-9043

2) **Injector**
- B216-9786 2

1) **Water Pump**
- B234-6110

2) **Water Pump Gasket**
- B201-8745

1) **Thermostat**
- B216-9737

2) **Piston Cooling Nozzle**
- B148-3026

3) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) Check application for proper usage.
(2): Check application for proper usage.
(3): Contains B360-3197 x 1 and B138-2053 x 12.

Engine Model:
3056E

Engine Desc:
TURBOCHARGE

Engine Data:
INDUSTRIAL ENGINE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm
Stroke: 5.00 in / 127.00 mm
Compression Ratio:17.25:1

Please see page **582** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK705

2) **Basic Engine Kit**
- BBK705
- SPEC SHEET - 3056E

Piston-Liner Kit
- BCK323

Consist of:
- a) B216-8323
- b) B217-1573
- c) B111-1815 1

6 Per Engine

Main Bearing Set
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030

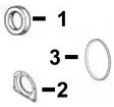
Set of 7 Pairs

Con Rod Bearing Set
- B236-4397 Std.
- B236-4397A 0.010
- B236-4397B 0.020
- B236-4397C 0.030

Set of 6 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B209-9218

3) **Ring Gear**
- B033-7687 126T

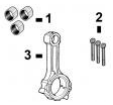
1) **Top Gasket Set**
- B216-9612

2) **Bottom Gasket Set**
- B236-6930

3) **Head Gasket**
- B240-0205

4) **Valve Cover Gasket**
- B216-9604

5) **Oil Pan Gasket**
- B6I-4710



1) **Bush, Con Rod**
- B225-5438 x6

2) **Bolt, Con Rod**
- B225-5439 x12

3) **Con Rod**
- B225-5453 3

1) **Bushing, Cam**
- B036-5802 x1

2) **Tappet**
- B138-2053

3) **Pushrod**
- B067-6095

4) **Seal, Valve Intake**
- B145-6856 x6

5) **Seal, Valve Exhaust**
- B145-6858 x6

6) **Camshaft**
- B360-3197 2

Valve Train Kit
- BVTK755

1) **Valve, Intake**
- B145-6855 x6

2) **Valve, Exhaust**
- B138-2050 x6

3) **Guide, Valve**
a) Intake
b) Exhaust
- 3a) B185-0882 x6
- 3b) B163-9256 x6

4) **Spring, Valve**
- B206-4127 x12

5) **Lock, Valve**
- B147-1979 x24

1) **Oil Pump**
- B216-8625

2) **Oil Cooler**
- B175-3915

1) **Lift Pump**
- B216-9043

2) **Injector**
- B216-9786 2

1) **Water Pump**
- B234-6110

2) **Water Pump Gasket**
- B201-8745

1) **Thermostat**
- B216-9737

2) **Piston Cooling Nozzle**
- B148-3026

3) **Cylinder Head Bolt**
- x12) B7W -2518
- x18) B7W-2519
- x2) B7W-2520

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) Fracture Split Type; Grade J.(3) Check application for p

(2): Check application for proper usage.

(3): Use for rods that have a 63.5mm rod journal.

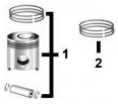
Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3064	TURBO	AR2013861	4 Cyl	Bore: 102.00 mm Stroke: 130.00 mm .

ESN
6LK1-Up

Applications
311
311C
312C
314C

Engine Arrangement
201-3861
205-6714
266-6194
266-6188
205-6715
266-6186

1) **Engine O/H Kit**
- BBK748
- SPEC SHEET - 3064T



1) **Piston & Ring Kit**
- B297-7750 Std.

2) **Ring Set**
- B178-6543 Std

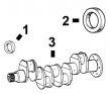
Main Bearings
- B5I-7588-4 Std.
- B5I-7784-4 0.25
- B5I-7785-4 0.50
- B5I-7786-4 0.75

Set of 5 Pairs

Con Rod Bearings
- B5I-7637-4 Std.
- B5I-7794-4 0.25
- B5I-7795-4 0.50
- B5I-7796-4 0.75

Set of 4 Pairs

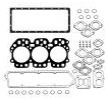
1) **Thrust Washer**
- B5I-7654 Std.



1) **Front Seal**
- B5I-7656

2) **Rear Seal**
- B5I-7660

3) **Crankshaft**
- B135-2419

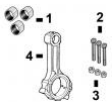


1) **O/H Gasket Set** 2
- B141-4370

2) **Head Gasket**
- B222-8330

3) **Rocker Cover Gasket**
- B5I-7905

4) **Oil Pan Gasket**
- B5I-7842



1) **Bush, Con Rod**
- B5I-7539

2) **Bolt, Con Rod**
- B094-7154

3) **Nut, Con Rod**
- B094-7516

4) **Con Rod**
- B5I-7668

1) **Camshaft**
- B196-7999

2) **Tappet**
- B324-4060

3) **Cam Bushing Kit**
- B3064CBS 1

Oil Pressure Switch
- B266-6210

Intake Valve
- B212-8477 x4

Insert Valve
- B212-8474

Exhaust Valve
- B5I-7739 x4

Insert Valve
- B5I-8012

Intake Valve Guide
- B183-8172

Exhaust Valve Guide
- B183-8173

Valve Lock
- B5I-7719

Valve Spring
- B5I-7740

Valve Seals
- B5I-7624

1) **Oil Pump Ring Gear**
- B5I-8125 9 Teeth
- B5I-7858 9 Teeth

2) **Oil Pump Gasket**
- B178-6537

3) **Oil Cooler**
- B135-2403

4) **Oil Cooler Gasket**
- B5I-7862

1) **Fuel Lift Pump**
- B255-2969

2) **Injector**

1) **Water Pump**
- B178-6633

2) **Gasket, W Pump**
- B096-9528

1) **Repair Sleeve**
- B5I-7523

Thermostat
- B5I-8010

(1): Contains [1]B5I-8009, [1]B5I-7528, & [1]B5I-7529

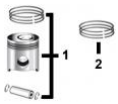
(2): Valve stem seals, Front and Real oil seals are not included

CATERPILLAR 3064T

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
3064T	TURBO	4 Cyl	Bore: 102.00 mm Stroke: 130.00 mm

ESN	Applications		Arrangement Number	
6LK1-Up	311	311B	162-6333	118-9886
	312	312B	154-0626	

1) Engine O/H Kit
- BBK749
- SPEC SHEET - 3064T



1) Piston & Ring Kit
- B297-7752 Std.

2) Ring Set
- B5I-7538 Std

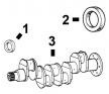
Main Bearings
- B5I-7588-4 Std.
- B5I-7784-4 0.25
- B5I-7785-4 0.50
- B5I-7786-4 0.75

Set of 5 Parts

Con Rod Bearings
- B5I-7637-4 Std.
- B5I-7794-4 0.25
- B5I-7795-4 0.50
- B5I-7796-4 0.75

Set of 4 Parts

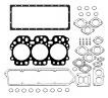
1) Thrust Washer
- B5I-7654 Std.



1) Front Seal
- B5I-7656

2) Rear Seal
- B5I-7660

3) Crankshaft
- B135-2419

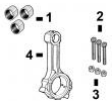


1) O/H Gasket Set 3
- B141-4370

2) Head Gasket
- B222-8330

3) Rocker Cover Gasket
- B5I-7905

4) Oil Pan Gasket
- B5I-7842



1) Bush, Con Rod
- B5I-7539

2) Bolt, Con Rod
- B094-7154

3) Nut, Con Rod
- B094-7516

4) Con Rod
- B5I-7668

1) Camshaft
- B5I-7837

2) Tappet
- B324-4060

3) Cam Bushing Kit 1
- B3064CBS

Oil Pressure Switch
- B266-6210

Intake Valve
- B5I-7738 x4

Insert Valve
- B5I-8011

Exhaust Valve
- B5I-7739 x4

Insert Valve
- B5I-8012

Intake Valve Guide
- B183-8172

Exhaust Valve Guide
- B183-8173

Valve Lock
- B5I-7719

Valve Spring
- B5I-7740

Valve Seals
- B5I-7624

1) Oil Pump Ring Gear
- B5I-8125 9 Teeth
- B5I-7858 9 Teeth

2) Oil Pump Gasket
- B5I-7684

3) Oil Cooler
- B135-2403

4) Oil Cooler Gasket
- B5I-7862

1) Fuel Lift Pump
- B5I-8145

2) Injector
- B236-4700

1) Water Pump
- B125-2989

2) Gasket, W Pump
- B096-9528

3) Thermostat
- B5I-8010

Repair Sleeve
- B5I-7523

Cylinder Head
- B5I-7836UF 2

2) Turbocharger
- B5I-8122 2

(1): Contains [1]B5I-8009, [1]B5I-7528, & [1]B5I-7529

(2): Check application for proper usage.

(3): Valve stem seals, Front and Real oil seals are not included

CATERPILLAR 3066

Engine Model:
3066

Engine Desc:
TURBO

Engine Info:
6 Cyl

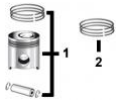
Engine Dimensions:
Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

ESN
1XM - UP
5BR - UP
6CR1 - UP
7JK01661-04480
7JK08058-19537

Arrangement Number
214-4457
131-9017
176-5032
109-9514
7I-7758
7I-7674

Machine Models
320 - Excavator
320L - Excavator
320N - Excavator
320B - Excavator
320BL - Excavator
322B - Excavator

1) **Engine O/H Kit**
- BBK752 Std.
- SPEC SHEET - 3066



1) **Piston & Ring Kit**
- B297-7752 Std.

2) **Ring Set**
- B5I-7538 Std

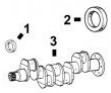
Main Bearings
- B5I-7588 Std.
- B5I-7784 0.25
- B5I-7785 0.50
- B5I-7786 0.75

Set of 7 Pairs

Con Rod Bearings
- B5I-7637 Std.
- B5I-7794 0.25
- B5I-7795 0.50
- B5I-7796 0.75

Set of 6 Pairs

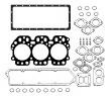
1) **Thrust Washer**
- B5I-7654 Std.



1) **Front Seal**
- B5I-7656

2) **Rear Seal**
- B185-9110 3
- B5I-7660 4

3) **Crankshaft**
- B125-3005 1

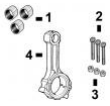


1) **O/H Gasket Set**
- B135-2371

2) **Head Gasket**
- B222-8331

3) **Rocker Cover Gasket**
- B5I-8002
- B5I-7733

4) **Oil Pan Gasket**
- B5I-7666



1) **Bush, Con Rod**
- B5I-7539

2) **Bolt, Con Rod**
- B094-7154

3) **Nut, Con Rod**
- B094-7516

4) **Con Rod**
- B5I-7668

1) **Camshaft**
- B5I-8068

2) **Tappet**
- B324-4060

3) **Cam Bushing Kit**
- B3066CBS 2

Oil Pressure Switch
- B266-6210

Intake Valve
- B5I-7738 x6

Valve Insert
- B5I-8011

Exhaust Valve
- B5I-7739 x6

Valve Insert
- B5I-8012

Intake Valve Guide
- B183-8172

Exhaust Valve Guide
- B183-8173

Valve Lock
- B5I-7719

Valve Spring
- B5I-7740

Valve Seals
- B5I-7624

1) **Oil Pump Ring Gear**
- B125-2950 9 Teeth
- B5I-7558 9 Teeth

2) **Oil Pump Gasket**
- B5I-7684

3) **Oil Cooler**
- B125-2970

4) **Oil Filter Gasket**
- B125-2979

5) **Oil Cooler Gasket**
- B5I-7690

1) **Fuel Lift Pump**
- B255-2969

2) **Injector**

1) **Water Pump**
- B125-2989

2) **Gasket, W Pump**
- B096-9528

3) **Thermostat**
- B5I-8010

1) **Repair Sleeve**
- B5I-7523

2) **Turbocharger**
- B5I-8018

Cylinder Head
- B183-8171UF Rear
- B183-8174UF Front

(1): Forged crankshaft includes front timing gear, dowels, & keyway
(2): Contains [1]B5I-8009, [2]B5I-7528, & [1]B5I-7529
(3): Does not include metal sleeve.
(4): Includes metal sleeve.

CATERPILLAR 3066

Engine Model:
3066

Engine Desc:
TURBO

Engine Info:
6 Cyl

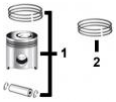
Engine Dimensions:
Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

ESN
7JK1 - UP
BBL1 - UP
BDE1 - UP
BEA1 - UP
BCN1 - UP

Arrangement Number
162-6351
162-6187
162-6190
162-6206
162-6351
222-8376
109-9513

Machine Models
320C - Excavator
320CL - Excavator
320CLN - Excavator
320CS - Excavator

1) **Engine O/H Kit**
- BBK753 Std.
- SPEC SHEET - 3066



1) **Piston & Ring Kit**
- B297-7753 Std.

2) **Ring Set**
- B178-6543 Std

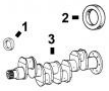
Main Bearings
- B5I-7588 Std.
- B5I-7784 0.25
- B5I-7785 0.50
- B5I-7786 0.75

Set of 7 Pairs

Con Rod Bearings
- B5I-7637 Std.
- B5I-7794 0.25
- B5I-7795 0.50
- B5I-7796 0.75

Set of 6 Pairs

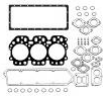
1) **Thrust Washer**
- B5I-7654 Std.



1) **Front Seal**
- B324-4223

2) **Rear Seal**
- B185-9110 3
- B5I-7660 4

3) **Crankshaft**
- B125-3005 1

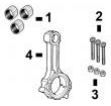


1) **O/H Gasket Set**
- B135-2371

2) **Head Gasket**
- B222-8331

3) **Rocker Cover Gasket**
- B255-2993

4) **Oil Pan Gasket**
- B5I-7666

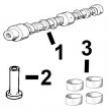


1) **Bush, Con Rod**
- B5I-7539

2) **Bolt, Con Rod**
- B094-7154

3) **Nut, Con Rod**
- B094-7516

4) **Con Rod**
- B5I-7668



1) **Camshaft**
- B178-6535

2) **Tappet**
- B324-4060

3) **Cam Bushing Kit**
- B3066CBS 2

4) **Push Rod**
- B5I-7723

Oil Pressure Switch
- B266-6210

Intake Valve
- B5I-7738 x6

Valve Insert
- B5I-8011

Exhaust Valve
- B5I-7739 x6

Valve Insert
- B5I-8012

Intake Valve Guide
- B183-8172

Exhaust Valve Guide
- B183-8173

Valve Lock
- B5I-7719

Valve Spring
- B5I-7740

Valve Seals
- B5I-7624

1) **Oil Pump Ring Gear**
- B125-2950 9 Teeth
- B5I-7558 9 Teeth

2) **Oil Pump Gasket**
- B178-6537

3) **Oil Cooler**
- B125-2970

4) **Oil Filter Gasket**
- B5I-7690

5) **Oil Cooler Gasket**
- B125-2979

1) **Fuel Lift Pump**
- B255-2969

2) **Injector**

1) **Water Pump**
- B178-6633

2) **Gasket, W Pump**
- B096-9528

3) **Thermostat**
- B5I-8010

1) **Repair Sleeve**
- B5I-7523

2) **Turbocharger**
- B5I-8018

Cylinder Head
- B183-8171UF Rear
- B183-8174UF Front

(1): Forged crankshaft includes front timing gear, dowels, & keyway
(2): Contains [1]B5I-8009, [2]B5I-7528, & [1]B5I-7529
(3): Does not include metal sleeve.
(4): Includes metal sleeve.

CATERPILLAR 3066

Engine Model:
3066

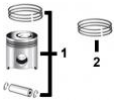
Engine Desc:
TURBO

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

Please see page **583** for a complete list of equipment models.

1) **Engine O/H Kit**
- BBK750 Std.
- SPEC SHEET - 3066



1) **Piston & Ring Kit**
- B297-7750 Std.

2) **Ring Set**
- B178-6543 Std

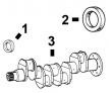
Main Bearings
- B5I-7588 Std.
- B5I-7784 0.25
- B5I-7785 0.50
- B5I-7786 0.75

Set of 7 Pairs

Con Rod Bearings
- B5I-7637 Std.
- B5I-7794 0.25
- B5I-7795 0.50
- B5I-7796 0.75

Set of 6 Pairs

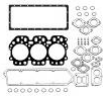
1) **Thrust Washer**
- B5I-7654 Std.



1) **Front Seal**
- B324-4223

2) **Rear Seal**
- B5I-7660 3
- B185-9110 4

3) **Crankshaft**
- B125-3005 1

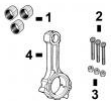


1) **O/H Gasket Set**
- B135-2372

2) **Head Gasket**
- B222-8331

3) **Rocker Cover Gasket**
- B255-2993

4) **Oil Pan Gasket**
- B5I-7666

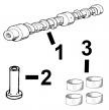


1) **Bush, Con Rod**
- B5I-7539

2) **Bolt, Con Rod**
- B094-7154

3) **Nut, Con Rod**
- B094-7516

4) **Con Rod**
- B5I-7668



1) **Camshaft**
- B178-6535

2) **Tappet**
- B324-4060

3) **Cam Bushing Kit**
- B3066CBS 2

4) **Push Rod**
- B5I-7723

Oil Pressure Switch
- B266-6210

Intake Valve
- B212-8477 x6

Valve Insert
- B212-8474

Exhaust Valve
- B5I-7739 x6

Valve Insert
- B5I-8012

Intake Valve Guide
- B183-8172

Exhaust Valve Guide
- B183-8173

Valve Lock
- B5I-7719

Valve Spring
- B5I-7740

Valve Seal
- B5I-7624

1) **Oil Pump Ring Gear**
- B125-2950 9 Teeth
- B5I-7558 9 Teeth

2) **Oil Pump Gasket**
- B178-6537

3) **Oil Cooler**
- B125-2970

4) **Oil Filter Gasket**
- B125-2979

5) **Oil Cooler Gasket**
- B5I-7690

1) **Fuel Lift Pump**
- B255-2969

2) **Injector**

1) **Water Pump**
- B178-6633

2) **Gasket, W Pump**
- B096-9528

3) **Thermostat**
- B5I-8010

1) **Repair Sleeve**
- B5I-7523

2) **Turbocharger**
- B5I-8018

Cylinder Head
- B310-9634UF Front
- B310-9635UF Rear

(1): Forged crankshaft includes front timing gear, dowels, & keyway
(2): Contains [1]B5I-8009, [2]B5I-7528, & [1]B5I-7529
(3): Includes metal sleeve.
(4): Does not include metal sleeve.

CATERPILLAR 3066

Engine Model:
3066

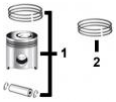
Engine Desc:
TURBO

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

Please see page **584** for a complete list of equipment models.

1) **Engine O/H Kit**
- BBK751 Std.
- SPEC SHEET - 3066



1) **Piston & Ring Kit**
- B297-7751 Std.

2) **Ring Set**
- B178-6543 Std

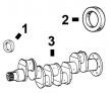
Main Bearings
- B5I-7588 Std.
- B5I-7784 0.25
- B5I-7785 0.50
- B5I-7786 0.75

Set of 7 Pairs

Con Rod Bearings
- B5I-7637 Std.
- B5I-7794 0.25
- B5I-7795 0.50
- B5I-7796 0.75

Set of 6 Pairs

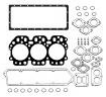
1) **Thrust Washer**
- B5I-7654 Std.



1) **Front Seal**
- B324-4223

2) **Rear Seal**
- B5I-7660 3
- B185-9110 4

3) **Crankshaft**
- B125-3005 1

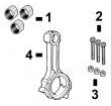


1) **O/H Gasket Set**
- B233-1135

2) **Head Gasket**
- B222-8331

3) **Rocker Cover Gasket**
- B255-2993

4) **Oil Pan Gasket**
- B5I-7666

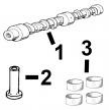


1) **Bush, Con Rod**
- B5I-7539

2) **Bolt, Con Rod**
- B094-7154

3) **Nut, Con Rod**
- B094-7516

4) **Con Rod**
- B5I-7668



1) **Camshaft**
- B178-6535

2) **Tappet**
- B324-4060

3) **Cam Bushing Kit**
- B3066CBS 2

4) **Push Rod**
- B5I-7723

Oil Pressure Switch
- B266-6210

Intake Valve
- B212-8477 x6

Valve Insert
- B212-8474

Exhaust Valve
- B5I-7739 x6

Valve Insert
- B5I-8012

Intake Valve Guide
- B183-8172

Exhaust Valve Guide
- B183-8173

Valve Lock
- B5I-7719

Valve Spring
- B5I-7740

Valve Seals
- B5I-7624

1) **Oil Pump Ring Gear**
- B125-2950 9 Teeth
- B5I-7558 9 Teeth

2) **Oil Pump Gasket**
- B178-6537

3) **Oil Cooler**
- B125-2970

4) **Oil Filter Gasket**
- B125-2979

5) **Oil Cooler Gasket**
- B5I-7690

1) **Fuel Lift Pump**
- B255-2969

2) **Injector**

1) **Water Pump**
- B178-6633

2) **Gasket, W Pump**
- B096-9528

3) **Thermostat**
- B5I-8010

1) **Repair Sleeve**
- B5I-7523

2) **Turbocharger**
- B279-7860

Cylinder Head
- B310-9634UF Front
- B310-9635UF Rear

(1): Forged crankshaft includes front timing gear, dowels, & keyway
(2): Contains [1]B5I-8009, [2]B5I-7528, & [1]B5I-7529
(3): Includes metal sleeve.
(4): Does not include metal sleeve.

Engine Model:
C2.2

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Tier 3

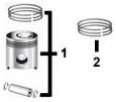
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3 / 2.2 Lt

Please see page **585** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK554 Std.
- BOK555 0.50

2) **Basic Engine Kit**
- BBK554 Std.
- BBK555 0.50
- Spec Sheet - C2.2



1) **Piston & Ring Kit**
- B297-3080 Std.
- B297-3080B 0.50

4 Per Engine

2) **Ring Set**
- B154-0943 Std.
- B154-0943B 0.50

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs

1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

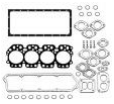
2) **Rear Seal**
- B154-0178

3) **Crankshaft**
- B308-1852 1

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518

6) **Flywheel Ring Gear**
- B154-2405 126T



1) **O/H Gasket Set**
- BC22TOG

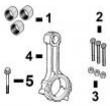
2) **Seal Rocker**
- B217-2752

3) **Seal, Cyl HD Cov**
- B233-0695

4) **Oil Pan Gasket**
- B215-2605

5) **Cylinder Head Gasket**
- B322-7486

6) **Timing Gasket Cover**
- B215-2620 3
- B215-2621 3
- B423-7723 3



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Con Rod**
- B154-0867

5) **Head Bolt**
- B156-6988 x14
- B156-6989 x4

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x4

2) **Seal, Valve Ex**
- B153-5554 x4

Valve Train Kit
- BVTK558

1) **Valve, Intake**
- B154-0888 x4

2) **Valve, Exhaust**
- B154-0889 x4

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**
- B153-5557 x8 2

5) **Lock, Valve**
- B153-5556 x16

1) **Oil Pump**
- B339-3017

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B249-5541

3) **Atomiser**
- B252-1446

4) **Fuel Water Separator**
- B276-1804

Water Pump
- B439-4992

Repair Sleeve
- 1) 84RS

2) **Cylinder Head**
- B321-4061UF

1) **Glowplug**
- B172-4585 x4

Fuel Lines
- 1) B217-2760
- 2) B217-2761
- 3) B217-2762
- 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853,(.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(2): Not included in Valve Train Kit.
(3): Included in BC22TOG

CATERPILLAR C2.2 TURBOCHARGED

Engine Model:
C2.2

Engine Desc:
TURBOCHARGE

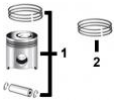
Engine Data:
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3 / 2.2 Lt

1) **Engine O/H Kit**
- BOK556 Std.
- BOK557 0.50

2) **Basic Engine Kit**
- BBK556 Std.
- BBK557 0.50
- Spec Sheet - C2.2



1) **Piston & Ring Kit**
- B270-6968 Std.
- B270-6968B 0.50

4 Per Engine

2) **Ring Set**
- B270-6970 Std.
- B270-6970B 0.50

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs

1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

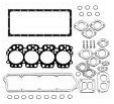
1) **Front Seal**
- B154-1675

2) **Rear Seal**
- B154-0178

3) **Crankshaft**
- B308-1852 1

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518



1) **O/H Gasket Set**
- BC22TOG

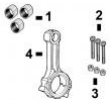
2) **Seal Rocker**
- B217-2752

3) **Seal, Cyl HD Cov**
- B233-0695

4) **Oil Pan Gasket**
- B215-2605

5) **Cylinder Head Gasket**
- B322-7486

6) **Timing Gasket Cover**
- B215-2620 4
- B215-2621 4
- B423-7723 4



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Con Rod**
- B154-0867

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x4

2) **Seal, Valve Ex**
- B153-5554 x4

Valve Train Kit
- BVTK558

1) **Valve, Intake**
- B154-0888 x4

2) **Valve, Exhaust**
- B154-0889 x4

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**
- B153-5557 x8 2

5) **Lock, Valve**
- B153-5556 x16

1) **Oil Pump**
- B339-3017

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B249-5541

3) **Injector**
- B252-1446

4) **Fuel Water Separator**
- B276-1804

Water Pump
- B439-4992

Repair Sleeve
- 1) 84RS

2) **Cylinder Head**
- B308-1859UF

Glowplug
- B172-4585 x4

Turbocharger
- B238-9349 3

(1): Do not use in applications that requiere a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853,(.887" or 22.5mm Wide) and the keyway P/N B153-5518, must be used.
(3): Check application for proper usage.

(2): Under develoment, not included in Valve Train Kit.

(4): Included in BC22TOG.

Engine Model:
C2.2

Engine Desc:
TURBOCHARGE AFTERCOOLED

Engine Data:
Tier 3

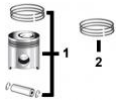
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3/ 2.2 Lt

Please see page **586** for a complete list of equipment models.

1) **Engine O/H Kit**
- BOK558 Std.
- BOK559 0.50

2) **Basic Engine Kit**
- BBK558 Std.
- BBK559 0.50
- Spec Sheet - C2.2



1) **Piston & Ring Kit**
- B270-6968 Std.
- B270-6968B 0.50

4 Per Engine

2) **Ring Set**
- B270-6970 Std.
- B270-6970B 0.50

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs

1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

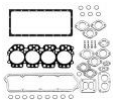
2) **Rear Seal**
- B154-0178

3) **Crankshaft**
- B308-1852 1

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518

6) **Flywheel Ring Gear**
- B154-2405 126T



1) **O/H Gasket Set**
- BC22TOG

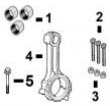
2) **Seal Rocker**
- B217-2752

3) **Seal, Cyl HD Cov**
- B233-0695

4) **Oil Pan Gasket**
- B215-2605

5) **Cylinder Head Gasket**
- B322-7486

6) **Timing gasket Cover**
- B215-2620 4
- B215-2621 4
- B423-7723 4



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Connecting Rod**
- B154-0867

5) **Head Bolt**
- B156-6988 x14
- B156-6989 x4

1) **Tappet**
- B154-1249

1) **Seal, Valve Intake**
- B153-5559 x4

2) **Seal, Valve Ex**
- B153-5554 x4

Valve Train Kit
- BVTK568

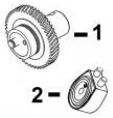
1) **Valve, Intake**
- B154-0888 x4

2) **Valve, Exhaust**
- B344-1624 x4

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**
- B153-5557 x8 2

4) **Lock, Valve**
- B153-5556 x16



1) **Oil Pump**
- B339-3017

2) **Oil Cooler**
- B245-1361

1) **Lift Pump**
- B176-7712

2) **Thermostat**
- B249-5541

3) **Atomiser**
- B252-1446

4) **Fuel Water Separator**
- B276-1804

Water Pump
- B439-4992

1) **Glowplug**
- B172-4585 x4

2) **Cylinder Head**
- B308-1859UF

3) **Repair Sleeve**
- 84RS

Turbocharger
- B238-9349 3

Fuel Lines
- 1) B217-2760
- 2) B217-2761
- 3) B217-2762
- 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853,(.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(2): Not included in valve train kit.
(3): Check application for proper usage.
(4): Included in BC22TOG.

CATERPILLAR C2.2 CRT TIER 4

Engine Series:
C2.2

Engine Model:
C2.2 CRT

Engine Desc:
TURBOCHARGED COMMON RAIL INJECTION

Engine Data:
Tier 4

Engine Info:
4 Cyl

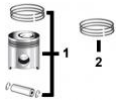
Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3/ 2.2 Lt

Please see page **587** for a complete list of equipment models.

1) **Basic Engine Kit**
- BBK570 Std.

2) **Basic Engine Kit**
- BBK571 0.50

Spec Sheet - C2.2



1) **Piston & Ring Kit**
- B469-8907 Std.
- B469-8907B 0.50

4 Per Engine

2) **Ring Set**
- B444-1407 Std.
- B444-1407B 0.50

Main Bearing Set
- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs

Con Rod Bearing Set
- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs

1) **Thrust Washer**
- B154-1230/31 Std.

Set of 3 Pcs

2) **Crank Bushing**
- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020

1) **Front Seal**
- B154-1675

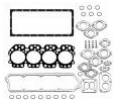
2) **Rear Seal**
- B154-0178

3) **Crankshaft**
- B308-1852 (1)

4) **Crankshaft Gear**
- B308-1853

5) **Key, Crank Gear**
- B153-5518

6) **Flywheel Ring Gear**
- B154-2405 126T



1) **O/H Gasket Set**
- BC22CRTOG (2)

2) **Head Gasket**
- B322-7486

3) **Oil Pan Gasket**
- B215-2605

4) **Timing Cover Gasket**
- B532-7623 (4)
- B480-9517 (5)

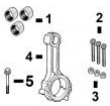
5) **Head Cover Seal**
- B425-6283

6) **Rocker Box Seal**
- B425-5331

7) **Exhaust Manifold Gasket**
- B423-7727

8) **Intake Spacer Plate Gasket**
- B424-3063

9) **Intake Manifold Gasket**
- B424-3064



1) **Bush, Con Rod**
- B154-0869 x4

2) **Bolt, Con Rod**
- B154-0870 x8

3) **Nut, Con Rod**
- B154-0871 x8

4) **Connecting Rod**
- B154-0867

5) **Head Bolt**
- B156-6988 x14
- B156-6989 x4

1) **Tappet**
- B154-1249

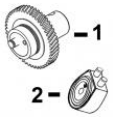
1) **Valve, Intake**
2) **Valve, Exhaust**

3) **Spring, Valve**
- B153-5558 x8

4) **Retainer, Valve Spring**
- B153-5557 x8

5) **Lock, Valve**
- B153-5556 x16

6) **Seal, Valve**
- B153-5559 x8



1) **Oil Pump**
- B339-3017

2) **Oil Cooler**
- B245-1361

1) **Water Pump**
- B439-4992

2) **Gasket, Water Pump**
- B303-0307

3) **Thermostat**
- B249-5541

1) **Repair Sleeve**
- 84RS x4

Turbocharger
- B480-4349

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853,(.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(2): Does not include crankshaft seals
(3): Check application for proper usage.
(4): For covers with no auxiliary drive
(5): For covers with 2 bolt auxiliary drive

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
C3.3	NATURALLY ASPIRATED	Tier 3	3 Cyl	Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3 / 3.3 Lt

Olympian

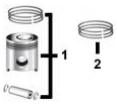
GEP26SP1
GEP26SP2
GEP26SP3
GEP26SP4
GEP30-1
GEP30-2
GEP33-1
GEP33-2
GEP33-3
GEP33-4
GEP35SP-7
GEP35SP11

Engine Arrangement

266-4536
266-4537
291-0356
292-7767

1) Engine O/H Kit
- BOK542 Std.
- BOK543 0.50
- BOK544 1.00

2) Basic Engine Kit
- BBK542 Std.
- BBK543 0.50
- BBK544 1.00
- SPEC SHEET - C3.3



1) Piston Kit
- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

3 Per Engine

2) Ring Set
- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

Main Bearing Set
- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

Set of 4 Pairs

Con Rod Bearing Set
- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

Set of 3 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

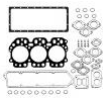
Set of 2 Pairs

1) Front Seal
- B4W-5359

2) Rear Seal
- B232-7449

3) Crankshaft Kit
- B273-9297

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T



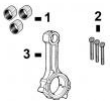
1) Top Gasket Set
- B291-8885

2) Bottom Gasket Set
- B275-0885

3) Timing Cover Gsk
- B225-8287

4) Head Gasket
- B273-9375

5) Oil Pan Gasket
- B274-4695

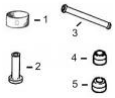


1) Bush, Con Rod
- B225-5438 x3

2) Bolt, Con Rod
- B225-5439 x6

3) Con Rod
- B225-5453 2

4) Head Bolts
- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam
- B232-7440 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

4) Seal, Valve Intake
- B252-6438 x3

5) Seal, Valve Exhaust
- B254-3954 x3

Valve Train Kit
- BVTK561

1) Valve, Intake
- B225-5495

2) Valve, Exhaust
- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)
- B185-0882 x6

4) Spring, Valve
- B225-5496

5) Lock, Valve
- B147-1979

Oil Pump
- B225-8329 3 1
- B231-0141 3

Lift Pump
- B350-4315 3
- B299-9267 3

1) Water Pump
- B225-8016

2) Thermostat
- B254-2267 3
- B254-2268 3
- B254-2269 3

Water Pump Gasket
- B225-8019

Glowplug
- B453-3510 x3

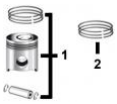
(1): Not to be used on Engines with Balancer Units.
(2): Use for rods that have a 63.5mm rod journal.
(3): Check application for proper usage.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
C3.3	NATURALLY ASPIRATED	Tier 3 INDUSTRIAL	3 Cyl	Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3 / 3.3 Lt

ESN	Olympian		Engine Arrangement
E3J1-UP	GEP26SP1	GEP33-1	284-5162
	GEP26SP2	GEP33-2	
	GEP26SP3	GEP33-3	
	GEP26SP4	GEP33-4	
	GEP30-1	GEP35SP-7	
	GEP30-2	GEP35SP11	

1) Engine O/H Kit
- BOK545 Std.
- BOK546 0.50
- BOK547 1.00

2) Basic Engine Kit
- BBK545 Std.
- BBK546 0.50
- BBK547 1.00
- SPEC SHEET - C3.3



1) Piston Kit
- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

3 Per Engine

2) Ring Set
- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

Main Bearing Set
- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

Set of 4 Pairs

Con Rod Bearing Set
- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

Set of 3 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

1) Front Seal
- B4W-5359

2) Rear Seal
- B232-7449

3) Crankshaft Kit
- B273-9297

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T

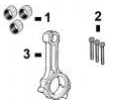
1) Top Gasket Set
- B291-8885

2) Bottom Gasket Set
- B275-0885/2

3) Timing Cover Gsk
- B226-8766

4) Head Gasket
- B273-9375

5) Oil Pan Gasket
- B274-4695

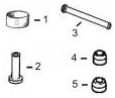


1) Bush, Con Rod
- B225-5438 x3

2) Bolt, Con Rod
- B225-5439 x6

3) Con Rod
- B225-5453 2

4) Head Bolts
- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam
- B232-7440 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

4) Seal, Valve Intake
- B252-6438 x3

5) Seal, Valve Exhaust
- B254-3954 x3

Valve Train Kit
- BVTK561

1) Valve, Intake
- B225-5495 x3

2) Valve, Exhaust
- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)
- B185-0882 x6

4) Spring, Valve
- B225-5496 x6

5) Lock, Valve
- B147-1979 x12

Oil Pump
- B225-8329 3 1
- B231-0141 3

Lift Pump
- B350-4315 3
- B299-9267 3

1) Water Pump
- B225-8016

2) Thermostat
- B254-2267 3
- B254-2268 3
- B254-2269 3

Water Pump Gasket
- B225-8019

Glowplug
- B453-3510 x3

(1): Not to be used on Engines with Balancer Units.
(2): Grade J.
(3): Check application for proper usage.

Engine Model: C3.3T

Engine Desc: TURBOCHARGED

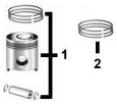
Engine Data: Tier 3 INDUSTRIAL

Engine Info: 3 Cyl

Engine Dimensions: Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3/ 3.3 Lt

1) Engine O/H Kit
- BOK548 Std.
- BOK549 0.50
- BOK550 1.00

2) Basic Engine Kit
- BBK548 Std.
- BBK549 0.50
- BBK550 1.00
- SPEC SHEET - C3.3



1) Piston Kit
- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

3 Per Engine

2) Ring Set
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

Main Bearing Set
- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

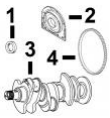
Set of 4 Pairs

Con Rod Bearing Set
- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

Set of 3 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

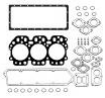


1) Front Seal
- B4W-5359

2) Rear Seal
- B232-7449

3) Crankshaft Kit
- B273-9297

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T



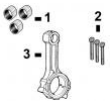
1) Top Gasket Set
- B291-8885

2) Bottom Gasket Set
- B275-0885

3) Timing Cover Gsk
- B225-8287

4) Head Gasket
- B273-9375

5) Oil Pan Gasket
- B274-4695

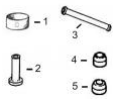


1) Bush, Con Rod
- B225-5438 x3

2) Bolt, Con Rod
- B225-5439 x6

3) Con Rod
- B225-5453 2

4) Head Bolts
- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam
- B232-7440 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

4) Seal, Valve Intake
- B252-6438 x3

5) Seal, Valve Exhaust
- B254-3954 x3

Valve Train Kit
- BVTK561

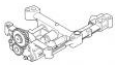
1) Valve, Intake
- B225-5495 x3

2) Valve, Exhaust
- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)
- B185-0882 x6

4) Spring, Valve
- B225-5496 x6

5) Lock, Valve
- B147-1979 x12



Oil Pump
- B225-8329 1

Lift Pump
- B350-4315 3
- B299-9267 3

1) Water Pump
- B225-8016

2) Thermostat
- B254-2267 3
- B254-2268 3
- B254-2269 3

Water Pump Gasket
- B225-8019

Glowplug
- B453-3510 x3

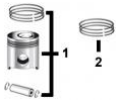
(1): Not to be used on Engines with Balancer Units.
(2): Use for rods that have a 63.5mm rod journal.
(3): Check application for proper usage.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
C3.3T	TURBOCHARGED	Tier 3 INDUSTRIAL	3 Cyl	Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3/ 3.3 Lt

Please see page **588** for a complete list of equipment models.

1) Engine O/H Kit
- BOK551 Std.
- BOK552 0.50
- BOK553 1.00

2) Basic Engine Kit
- BBK551 Std.
- BBK552 0.50
- BBK553 1.00
- SPEC SHEET - C3.3



1) Piston Kit
- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

3 Per Engine

2) Ring Set
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

Main Bearing Set
- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

Set of 4 Pairs

Con Rod Bearing Set
- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

Set of 3 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

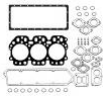
Set of 2 Pairs

1) Front Seal
- B4W-5359

2) Rear Seal
- B232-7449

3) Crankshaft Kit
- B273-9297

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T



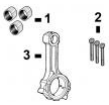
1) Top Gasket Set
- B291-8885

2) Bottom Gasket Set
- B275-0885/2

3) Timing Cover Gsk
- B226-8766

4) Head Gasket
- B273-9375

5) Oil Pan Gasket
- B274-4695

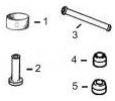


1) Bush, Con Rod
- B225-5438 x3

2) Bolt, Con Rod
- B225-5439 x6

3) Con Rod
- B225-5453 2

4) Head Bolts
- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam
- B232-7440 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

4) Seal, Valve Intake
- B252-6438 x3

5) Seal, Valve Exhaust
- B254-3954 x3

Valve Train Kit
- BVTK561

1) Valve, Intake
- B225-5495 x3

2) Valve, Exhaust
- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)
- B185-0882 x6

4) Spring, Valve
- B225-5496 x6

5) Lock, Valve
- B147-1979 x12

Oil Pump
- B225-8329 1

Lift Pump
- B350-4315 3
- B299-9267 3

1) Water Pump
- B225-8016

2) Thermostat
- B254-2267 3
- B254-2268 3
- B254-2269 3

Water Pump Gasket
- B225-8019

Glowplug
- B453-3510 x3

(1): Not to be used on Engines with Balancer Units.
(2): Use for rods that have a 63.5mm rod journal.
(3): Check application for proper usage.

CATERPILLAR C3.3T INDUSTRIAL TURBOCHARGED

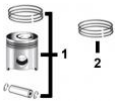
Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
C3.3T	TURBOCHARGED	Tier 3 INDUSTRIAL	3 Cyl	Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3 / 3.3 Lt

ESN

E3S1-UP E3G1-UP

1) Engine O/H Kit
- BOK610 Std.
- BOK611 0.50
- BOK612 1.00

2) Basic Engine Kit
- BBK610 Std.
- BBK611 0.50
- BBK612 1.00
- SPEC SHEET - C3.3



1) Piston Kit
- B277-6275 Std.
- B277-6275B 0.50
- B277-6275D 1.00

3 Per Engine

2) Ring Set
- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00

Main Bearing Set
- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

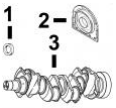
Set of 4 Pairs

Con Rod Bearing Set
- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

Set of 3 Pairs

Thrust Washer
- B032-9090/91 Std.
- B067-6873/74 0.007

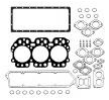
Set of 2 Pairs



1) Front Seal
- B4W-5359

2) Rear Seal
- B232-7449

3) Crankshaft Kit
- B273-9297



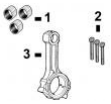
1) Top Gasket Set
- B291-8885

2) Bottom Gasket Set
- B275-0885

3) Timing Cover Gsk
- B225-8287

4) Head Gasket
- B273-9375

5) Oil Pan Gasket
- B274-4695

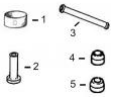


1) Bush, Con Rod
- B225-5438 x3

2) Bolt, Con Rod
- B225-5439 x6

3) Con Rod
- B225-5453 2

4) Head Bolts
- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam
- B232-7440 x1

2) Tappet
- B138-2053

3) Pushrod
- B067-6095

4) Seal, Valve Intake
- B252-6438 x3

5) Seal, Valve Exhaust
- B254-3954 x3

Valve Train Kit
- BVTK561

1) Valve, Intake
- B225-5495 x3

2) Valve, Exhaust
- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)
- B185-0882 x6

4) Spring, Valve
- B225-5496 x6

5) Lock, Valve
- B147-1979 x12

Oil Pump
- B225-8329 1

Lift Pump
- B350-4315 3
- B299-9267 3

1) Water Pump
- B225-8016

2) Thermostat
- B254-2267 3
- B254-2268 3
- B254-2269 3

Water Pump Gasket
- B225-8019

Glowplug
- B453-3510 x3

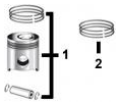
(1): Not to be used on Engines with Balancer Units.
(2): Use for cranks that have a 63.5mm journal.
(3): Check application for proper usage.

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
C3.3B	C3.3B Tier 3, Interim Tier 4	Direct Injection W/EGR	4 Cyl	Bore: 3.70 in / 94 mm Stroke: 4.724 in / 120.00 mm

Please see page **589** for a complete list of equipment models.

Basic Engine Kit
- BBK574 Std. 1
- BBK575 0.50 1

Spec Sheet -



1) **Piston & Ring Kit**
- B393-2907 Std.
- B393-2908 0.50

4 Per Engine

2) **Ring Set**
- B387-9836 Std.
- B393-2889 0.50

Main Bearing
- B393-2914 Std.
- B393-2915 .20mm
- B393-2916 .40mm

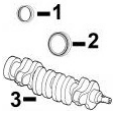
Use 5 Pairs

Con Rod Bearing
- B388-7501 Std.
- B393-2895 .20mm
- B393-2896 .40mm

Use 4 Pairs

Thrust Washer Set
- B387-9845/46 Std.

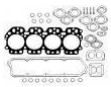
Set of 4 Pcs



1) **Front Seal**
- B387-9796

2) **Rear Seal**
- B387-9854

3) **Crankshaft**
- B387-9840 2



1) **Top Gasket Set**
- BC33BHS 1

2) **Lower Gasket Set**
- BC33BCS

3) **Head Gasket**
- B387-9790 2 notch
- B387-9791 1 notch
- B387-9792 No notch

4) **Rocker Cover Gasket**
- B387-9829

1) **Bushing, Con Rod**
- B393-2894 x8

2) **Bolt, Con Rod**

3) **Connecting Rod**
- B387-9839

1) **Tappet**
- x8

2) **Push Rod**

Valve Train

1) **Valve, Intake**
- B389-0695 x8

2) **Valve, Exhaust**
- B389-0696 x8

3) **Guide, Intake Valve**
- B389-0691 x8

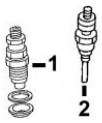
4) **Guide, Exhaust Valve**
- B389-0692 x8

5) **Spring, Valve**
- B389-0697 x16

6) **Seal, Valve**
- 6) B389-0700 x16

1) **Oil Pump Kit (Rotor Set)**
- B388-7442

Oil Cooler
- B387-9872 2



1) **Fuel Injector**
- B397-9952

2) **Glow Plug**
- B387-9899

1) **Water Pump**
- B387-9903 2

Water Pump Gasket
- B387-9904

2) **Thermostat**
- B389-5308

Turbocharger
- 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper use

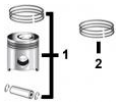
(3):

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
C3.3B	C3.3B Tier 4	Common Rail Injection	4 Cyl	Bore: 3.70 in / 94 mm Stroke: 4.724 in / 120.00 mm

Please see page **590** for a complete list of equipment models.

Basic Engine Kit
- BBK576 Std. 1
- BBK577 0.50 1

Spec Sheet -



1) **Piston & Ring Kit**
- B436-1072 Std.
- B436-1073 0.50

4 Per Engine

2) **Ring Set**
- B387-9836 Std.
- B393-2889 0.50

Main Bearing
- B393-2914 Std.
- B393-2915 .20mm
- B393-2916 .40mm

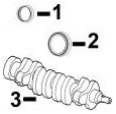
Use 5 Pairs

Con Rod Bearing
- B388-7501 Std.
- B393-2895 .20mm
- B393-2896 .40mm

Use 4 Pairs

Thrust Washer Set
- B387-9845/46 Std.

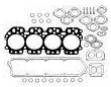
Set of 4 Pcs



1) **Front Seal**
- B387-9796

2) **Rear Seal**
- B387-9854

3) **Crankshaft**
- B387-9840 2



1) **Top Gasket Set**
- B436-1916 1

2) **Lower Gasket Set**
- B436-1917

3) **Head Gasket**
- B436-0834 2 notch
- B436-0835 1 notch
- B436-0836 No notch

4) **Rocker Cover Gasket**
- B387-9829

1) **Bushing, Con Rod**
- B393-2894 x8

2) **Bolt, Con Rod**

3) **Connecting Rod**
- B387-9839

1) **Tappet**
- x8

2) **Push Rod**

Valve Train

1) **Valve, Intake**
- B389-0695 x8

2) **Valve, Exhaust**
- B389-0696 x8

3) **Guide, Intake Valve**
- B389-0691 x8

4) **Guide, Exhaust Valve**
- B389-0692 x8

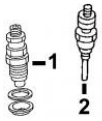
5) **Spring, Valve**
- B389-0697 x16

6) **Seal, Valve**
- 6) B389-0700 x16

7) **Lock, Valve**
- B389-5137 x32

1) **Oil Pump Kit (Rotor Set)**
- B397-9057 2
- B388-7442 2

2) **Oil Cooler**
- B387-9872 2



1) **Fuel Injector**
- B608-2959

2) **Glow Plug**
- B387-9899

1) **Water Pump**
- B387-9903 2

Water Pump Gasket
- B387-9904

2) **Thermostat**
- B389-5308

Turbocharger
- B436-1920 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper use

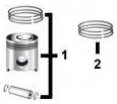
(3):

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
C3.8	C3.8 Tier 3, Interim Tier 4	Common Rail Injection	4 Cyl	Bore: 3.937 in / 100 mm Stroke: 4.724 in / 120.00 mm

Engine Arrangement		Skid Steers		Compact Track Loaders		Wheel Loaders	
345-3555	345-3615	272D	272D XHP	297D	297D XHP	910K	914K
416-6105				299D	299D XHP		

Basic Engine Kit
- BBK572 Std. 2
- BBK573 0.50 2

Spec Sheet -



1) **Piston & Ring Kit**
- B389-5172K Std.
- B389-5173K 0.50

4 Per Engine

2) **Ring Set**
- B389-5174 Std.
- B389-5175 0.50

Main Bearing
- B389-5190 Std.
- B389-5191 .20mm
- B389-5192 .40mm

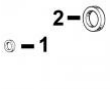
Use 5 Pairs

Con Rod Bearing
- B389-5182 Std.
- B389-5183 .20mm
- B389-5184 .40mm

Use 4 Pairs

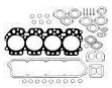
Thrust Washer Set
- B389-5193/96 Std.
- B389-5194/97 .20mm

Set of 4 Pcs



1) **Front Seal**
- B387-9796

2) **Rear Seal**
- B389-5213



1) **Head Gasket Set**
- BC38HS 2

2) **Lower Gasket Set**
- BC38CS

3) **Head Gasket**
- B389-5132 2 notch
- B389-5133 1 notch
- B389-5134 No notch

4) **Rocker Cover Gasket**
- B389-5150

1) **Bushing, Con Rod**
- B389-5179 x8

2) **Bolt, Con Rod**
- B389-5180 x8

4) **Con Rod Kit**
- B389-5178

1) **Tappet**
- B383-0306 x8

2) **Push Rod**
- B389-5199 x8

Valve Train

1) **Valve, Intake**
- B389-5135 x8

2) **Valve, Exhaust**
- B389-5136 x8

3) **Guide, Valve**
- B389-0692 x16

4) **Spring, Valve**
- B389-0697 x16

5) **Lock, Valve**
- B389-5137 x32

6) **Seal, Valve**
- B389-0700 x16

1) **Oil Pump Kit (Rotor Set)**
- B389-5161

2) **Oil Cooler**
- B389-5401

1) **Water Pump**
- B389-5309 1

Water Pump Gasket
- B389-5310

2) **Thermostat**
- B389-5308

Turbocharger
- B389-9185 1

(1): Check application for proper use

(2): Includes 2 notch head gasket

(3):

CATERPILLAR C4.2 TURBO

Engine Model:
C4.2

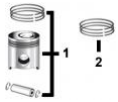
Engine Desc:
TURBO

Engine Info:
4 Cyl

Engine Dimensions:
Bore: Ø 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in
Piston Pin: Ø 34mm / 1.338 in

Please see page **591** for a complete list of equipment models.

1) **Engine O/H Kit**
- BBKC42 Std.
- SPEC SHEET - C4.2



1) **Piston & Ring Kit**
- B324-4238 Std.

4 Per engine

2) **Ring Set**
- B178-6543 Std

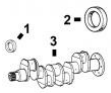
Main Bearings
- B5I-7588-4 x1 Std.
- B5I-7784-4 x1 0.25
- B5I-7785-4 x1 0.50
- B5I-7786-4 x1 0.75

Set of 5 Pairs

Con Rod Bearings
- B294-1748 x8 Std.
- B297-7648 x8 0.25
- B297-7649 x8 0.50
- B297-7650 x8 0.75

Rod bearings are priced and sold per shell

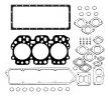
1) **Thrust Washer**
- B5I-7654 x1 Std.



1) **Front Oil Seal**
- B5i-7656

Rear Oil Seal
- B5I-7660 [1]

Crankshaft
- B296-4710



1) **Overhaul Gasket Kit**
- BC42TOG [5]

3) **Cylinder Head Gasket**
- B296-4689

4) **Upper Rocker Cover Gasket**
- B296-4694

5) **Lower Rocker Cover Gasket**
- B305-4768

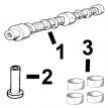
6) **Oil Pan Gasket**
- B5I-7842

1) **Bushing, Conn. Rod**
- B296-4663

2) **Bolt, Conn. Rod**
- B094-7154

3) **Nut, Conn. Rod**
- B094-7516

4) **Connecting Rod**
- B294-1747



1) **Camshaft**
- B305-4758

2) **Tappet**
- B324-4060

3) **Cam Bushing Kit**
- B3064CBS [2]

4) **Push Rod**
- B294-1716

Pressure Sensor - Fuel Manifold
- B238-0118

Pressure Sensor - Fuel Filter Base
- B274-6721

Temperature Sensor
- B238-0112

Speed Sensor
- B238-0120

Intake Valve
- B294-1684 x8

Valve Insert inlet
- B305-4883 x8

Exhaust Valve
- B294-1685 x8

Valve Insert exhaust
- B305-4884 x8

Valve Guide
- B305-4885 x16

Valve Keepers
- B199-2188 x32

Valve Spring
- B294-1688 x16

Valve Seals
- B199-2189 x16

Spring Retainer
- B199-2187 x16

1) **Oil Pump Ring Gear**
- B125-2950 9 Teeth
- B5I-7558 9 Teeth

2) **Oil Pump Gasket**
- B178-6537

3) **Oil Cooler**
- B135-2403

4) **Oil Cooler Gasket**
- B5i-7691 x2

5) **Oil Cooler Gasket**
- B5i-7862

1) **Fuel Lift Pump**
- B137-5541

2) **Gasket, Fuel Lift Pump**
- B294-1820

3) **Injector**
- B326-4756

4) **Injector O-Ring**
- B294-1803

5) **Copper Washer**
- B1R-6573

6) **Injector inlet Dust Seal**
- B294-1788

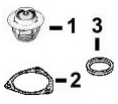
7) **Fuel Pump**
- B292-3751

1) **Water Pump**
- B178-6633

2) **Gasket, W Pump**
- B096-9528

Repair Sleeve
- 1) B5I-7523

2) **Oil Cooling Nozzle**
- B294-1722



1) **Thermostat**
- B324-4128
- B5i-8010

2) **Thermostat Gasket**
- B294-1780 [3]

3) **Thermostat Gasket**
- B5I-7735 [4]

(1): Includes Metal Sleeve

(2): Contains 1x B5I-8009, 1x B5I-7528 & 1x B5I-7529

(3): 3 bolts paper gasket

(4): Rubber flat Seal

(5): Front & Rear Oil Seals are sold separately.

CATERPILLAR C4.4B ACERT – PISTON #361-2486

Engine Model:
C4.4B

Engine Desc:
TURBOCHARGED

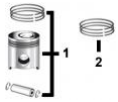
Engine Data:
Tier 4 Interim

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 268.50 in3 /6.6 Lt

Please see page **592** for a complete list of equipment models.

Basic Kit
- BBK566 Std. 1
- BBK567 0.50 1
- BBK568 1.00 1
- SPEC SHEET - C4.4B ACERT



1) **Piston & Ring Kit**
- B361-2486 Std.
- B361-2590 0.50
- B451-8387 1.00

2) **Ring Set**
- B360-2028 Std.
- B449-2818 0.50
- B449-2819 1.00

4 Per Engine

Main Bearing Set
- B518-5431 Std.
- B518-5432 0.010
- B518-5433 0.020
- B518-5436 0.030

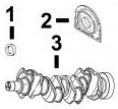
Set of 5 Pairs

Con Rod Bearing Set
- B360-3986 Std.
- B468-7762 0.010
- B468-7769 0.020
- B468-7770 0.030

Set of 4 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

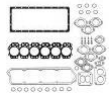
Set of 2 Pcs



1) **Front Seal**
- B371-8062

2) **Rear Seal**
- B232-7449

3) **Crankshaft**
- B376-4076 7
- B376-4077 7



1) **Top Gasket Set**
- BC44BTOP

2) **Bottom Gasket Set**
- BC44BBOT 2

3) **Head Gasket**
- B390-0341

4) **Valve Cover Gasket**
- B333-8052

5) **Exhaust Manifold Gasket**
- B349-1835

6) **Timing Cover Gasket - Front Side**
- B335-5330 3
- B348-9985 4

7) **Timing Cover Gasket - Rear side**
- B319-9361 5
- B330-4778 6

8) **Oil Pan Gasket**
- B225-6005

1) **Bush, Con Rod**
- B276-7478 x4

2) **Bolt, Con Rod**
- B323-9312 x8

3) **Con Rod Kit**
- B333-5465 7

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B363-3890 7

3) **Tappet**
- B385-4313 x8

4) **Pushrod**
- B319-8426 x8

Valve Train

1) **Valve, Intake**
- B336-5446 x8

2) **Valve, Exhaust**
- B336-5447 x8

3) **Guide, Valve (Intake & Exhaust)**
- B356-9640 x16

4) **Seal, Valve Stem**
- B387-9503 x16

5) **Valve, Insert In**
- B322-4120 x8

6) **Valve, Insert Exhaust**
- B343-5964 x8

7) **Spring, Valve**
- B436-0524 x16

8) **Lock, Valve**
- B152-9860 x32

1) **Oil Pump**
- B447-8576

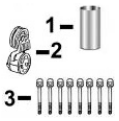
2) **Oil Cooler**
- B361-1225

3) **Oil Cooler Gasket**
- B361-0841

1) **Water Pump**
- B397-5683 7
- B397-5684 7

2) **Water Pump Gasket**
- B353-8578

3) **Thermostat**
- B394-5022 7
- B497-3998 7
- B497-3989 7
- B586-2474 7



1) **Repair Sleeve**
- 105RS

2) **Belt Tensioner**
- B377-9082 7

3) **Head Bolts**
- B276-8134 x10

1) **Glowplug**
- B462-2235 24volts
- B452-3112 12volts

2) **Piston Cooling Nozzle**
- B329-3796

3) **Injector**
- B370-7286 7
- B370-7287 7

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(4): Use with timing Cover – Rear side B330-4778

(5): Use with timing Cover – Front side B335-5330

(6): Use with timing Cover – Front side B348-9985

(7): Check application for proper usage.

CATERPILLAR C4.4B ACERT – PISTON #360-3987

Engine Model:
C4.4B

Engine Desc:
TURBOCHARGED

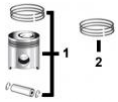
Engine Data:
Tier 4 Interim

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 268.50 in3 /6.6 Lt

Please see page **593** for a complete list of equipment models.

Basic Kit
- BBK578 Std. 1
- BBK579 0.50 1
- BBK580 1.00 1
- SPEC SHEET - C4.4B ACERT



1) **Piston & Ring Kit**
- B360-3987 Std.
- B361-5409 0.50
- B361-5410 1.00

2) **Ring Set**
- B360-2028 Std.
- B449-2818 0.50
- B449-2819 1.00

4 Per Engine

Main Bearing Set
- B518-5431 Std.
- B518-5432 0.010
- B518-5433 0.020
- B518-5436 0.030

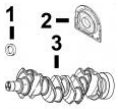
Set of 5 Pairs

Con Rod Bearing Set
- B360-3986 Std.
- B468-7762 0.010
- B468-7769 0.020
- B468-7770 0.030

Set of 4 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

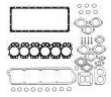
Set of 2 Pcs



1) **Front Seal**
- B371-8062

2) **Rear Seal**
- B232-7449

3) **Crankshaft**
- B376-4076 7
- B376-4077 7



1) **Top Gasket Set**
- BC44BTOP

2) **Bottom Gasket Set**
- BC44BBOT 2

3) **Head Gasket**
- B390-0341

4) **Valve Cover Gasket**
- B333-8052

5) **Exhaust Manifold Gasket**
- B349-1835

6) **Timing Cover Gasket - Front Side**
- B335-5330 3
- B348-9985 4

7) **Timing Cover Gasket - Rear side**
- B319-9361 5
- B330-4778 6

8) **Oil Pan Gasket**
- B225-6005

1) **Bush, Con Rod**
- B276-7478 x4

2) **Bolt, Con Rod**
- B323-9312 x8

3) **Con Rod Kit**
- B333-5465 7

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B363-3890 7

3) **Tappet**
- B385-4313 x8

4) **Pushrod**
- B319-8426 x8

Valve Train

1) **Valve, Intake**
- B336-5446 x8

2) **Valve, Exhaust**
- B336-5447 x8

3) **Guide, Valve (Intake & Exhaust)**
- B356-9640 x16

4) **Seal, Valve Stem**
- B387-9503 x16

5) **Valve, Insert In**
- B322-4120 x8

6) **Valve, Insert Exhaust**
- B343-5964 x8

7) **Spring, Valve**
- B436-0524 x16

8) **Lock, Valve**
- B152-9860 x32

1) **Oil Pump**
- B447-8576

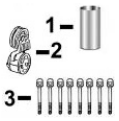
2) **Oil Cooler**
- B361-1225

3) **Oil Cooler Gasket**
- B361-0841

1) **Water Pump**
- B397-5683 7
- B397-5684 7

2) **Water Pump Gasket**
- B353-8578

3) **Thermostat**
- B394-5022 7
- B497-3998 7
- B497-3989 7
- B586-2474 7



1) **Repair Sleeve**
- 105RS

2) **Belt Tensioner**
- B369-1255 7
- B377-9082 7

3) **Head Bolts**
- B276-8134 x10

1) **Glowplug**
- B462-2235 24volts
- B452-3112 12volts

2) **Piston Cooling Nozzle**
- B329-3796

3) **Injector**
- B370-7280 7
- B370-7286 7
- B370-7287 7

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(4): Use with timing Cover – Rear side B330-4778

(5): Use with timing Cover – Front side B335-5330

(6): Use with timing Cover – Front side B348-9985

(7): Check application for proper usage.

CATERPILLAR C4.4T/TA

Engine Model:
C4.4T/TA

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 3

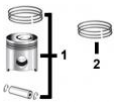
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in3/ 4.4Lt

Please see page **594** for a complete list of equipment models.

1) Basic Kit
1) (Rod Brg OD 63.5 mm)
- BBK600 — 3
- BBK601 0.50 — 3
- BBK602 1.00 — 3

2) Basic Kit
(Rod Brg OD 68 mm)
- BBK600S
- BBK601S 0.50 — 3
- BBK602S 1.00 — 3
- SPEC SHEET - C4.4T-TA



1) Piston & Ring Kit
- B315-3395 Std.
- B396-4592 0.50
- B315-3395D 1.00

2) Ring Set
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

4 Per Engine

Main Bearing Set
- B353-7423 Std.
- B353-7424 0.010
- B353-7425 0.020
- B353-7426 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. — 1
- B233-3788 0.010 — 1
- B233-3789 0.020 — 1
- B233-3790 0.030 — 1
- B360-3986 Std. — 2
- B468-7762 0.010 — 2
- B468-7769 0.020 — 2
- B468-7770 0.030 — 2

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

1) Front Seal
- B4W-5359

2) Rear Seal
- B232-7449

3) Crankshaft Kit
- B232-7400 — 5
- B359-0715 — 6

4) Ring Gear
- B7W-6247 115T
- B033-7687 126T

5) Crankshaft Gear
- B216-8314

1) Top Gasket Set
- B276-3420

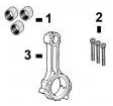
2) Bottom Gasket Set
- BC44TBOG — 3

3) Head Gasket
- B240-7194

4) Valve Cover Gasket
- B225-6451

5) Timing Cover Gsk
- B225-8287 — 4
- B226-8766 — 4
- B291-6524 — 4

6) Oil Pan Gasket
- B225-6005 — 4
- B237-5932 — 4



1) Bush, Con Rod
- B225-5438 x4

2) Bolt, Con Rod
- B225-5439 x8 — 1
- B323-9312 x8 — 2

3) Connecting Rod
- B225-5453 — 1
- B359-0722 — 2

1) Bushing, Cam
- B232-7440 x1

2) Camshaft
- B350-2433 — 4
- B380-2600 — 4

3) Tappet
- B315-3384 x8

4) Pushrod
- B278-5126 x8

5) Seal, Valve Exhaust
- B254-3954 x4

6) Seal, Valve Intake
- B252-6438 X4

7) Cam and Lifter Kit
- B350-2433KIT — 4
- B380-2600KIT — 4

Valve Train

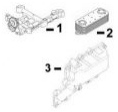
1) Valve, Intake
- B315-3390 x4

2) Valve, Exhaust
- B315-3394 x4

3) Guide, Valve (Intake & Exhaust)
- B185-0882 x8

4) Spring, Valve
- B436-0522 x8

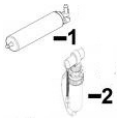
5) Lock, Valve
- B315-3393 x16



1) Oil Pump
- B225-8329

2) Oil Cooler
- B225-6817

3) Oil Cooler Assembly
- B354-1274 — 7



1) Lift Pump
- B350-4315
- B232-7808 — 4

3) Fuel Pump
- B349-1063 (3 Pin) — 4

1) Water Pump
- B225-8016 — 4

2) Thermostat
- B254-2267

3) Water Pump Gasket
- B225-8019

1) Repair Sleeve
- 105RS

2) Cylinder Head
- B315-3389UF

3) Head Bolts
- B225-5501 x7
- B225-5502 x3

1) Glowplug
- B453-3510 x4

2) Injector
- B315-3381 — 4

3) Piston Cooling Nozzle
- B276-5605

Fuel Lines
- 1) B230-8995
- 2) B230-8996
- 3) B230-8997
- 4) B230-8998

(1): Use for rods that have a 63.5mm rod journal

(2): Use for rods that have a 68mm rod journal

(3): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.

(4): Check application for proper use.

(5): 63.5mm rod journal, splined nose

(6): 68mm rod journal, non-splined nose

(7): Includes 9 plate oil cooler core.

(8): Use for cranks with 63.5mm journal.

CATERPILLAR C4.4T/TA 9269

Engine Model:
C4.4T/TA

Engine Desc:
TURBOCHARGED

Engine Data:
Tier 3

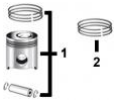
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in3/ 4.4Lt

Please see page **595** for a complete list of equipment models.

1) **Basic Kit**
1) **(Rod Brg OD 63.5 mm)**
- BBK603 Std. 3
- BBK604 0.50 3
- BBK605 1.00 3

2) **Basic Kit**
(Rod Brg OD 68 mm)
- BBK603S Std. 3
- BBK604S 0.50 3
- BBK605S 1.00 3
- SPEC SHEET - C4.4T-TA



1) **Piston & Ring Kit**
- B310-9269 Std.
- B396-4482 0.50
- B310-9269D 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

4 Per Engine

Main Bearing Set
- B353-7423 Std.
- B353-7424 0.010
- B353-7425 0.020
- B353-7426 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 1
- B233-3788 0.010 1
- B233-3789 0.020 1
- B233-3790 0.030 1
- B360-3986 Std. 2
- B468-7762 0.010 2
- B468-7769 0.020 2
- B468-7770 0.030 2

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

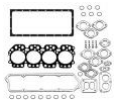
1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 5
- B359-0715 6

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314



1) **Top Gasket Set**
- BC44TTOG

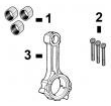
2) **Bottom Gasket Set**
- BC44TBOG 3

3) **Head Gasket**
- B310-8520

4) **Valve Cover Gasket**
- B298-4546

5) **Timing Cover Gsk**
- B225-8287
- B226-8766

6) **Oil Pan Gasket**
- B225-6005
- B237-5932



1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 1
- B323-9312 x8 2

3) **Connecting Rod**
- B225-5453 1
- B359-0722 2

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B364-0470

3) **Tappet**
- B315-3384 x8

4) **Pushrod**
- B278-5126 x8

5) **Seal, Valve Stem**
- B299-5511 x16

6) **Cam and Lifter Kit**
- B364-0470KIT

Valve Train

1) **Valve, Intake**
- B309-6678 x8

2) **Valve, Exhaust**
- B339-9637 x8

3) **Guide, Valve (Intake & Exhaust)**
- 3) B380-2073 x16

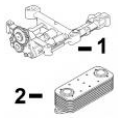
4) **Valve, Insert In**
- B377-0399 x8

5) **Valve, Insert Ex**
- B377-0400 x8

6) **Spring, Valve**
- B436-0524 x16

7) **Lock, Valve**
- B276-8123 x32

8) **Valve Seals**
B299-5511



1) **Oil Pump**
- B225-8329

2) **Oil Cooler**
- B298-4558

1) **Lift Pump**
- B350-4315

2) **Lift Pump**
- B232-7808 4

3) **Fuel Pump**
- B349-1063 7 Pin) 4

1) **Water Pump**
- B354-4754 4

2) **Water Pump Gasket**
- B225-8019

3) **Thermostat**
- B417-7782 4
- B367-1817 4
- B357-8714 4

4) **Thermostat Housing Gasket**
- B281-8744

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- B225-5501 x10

3) **Turbocharger**
- B316-0477 4
- B316-0468 4

1) **Glowplug**
- B226-8770 4
- B452-3112 4

2) **Piston Cooling Nozzle**
- B276-5605

3) **Injector**
- B320-0677 4

Fuel Lines
- 1) B322-3745
- 2) B322-3746
- 3) B333-4732
- 4) B333-4733

(1): Use for rods with 63.5mm rod journal

(2): Use for rods with 68mm rod journal

(3): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.

(4): Check application for proper use.

(5): 63.5mm rod journal, splined nose

(6): 68mm rod journal, non-splined nose

CATERPILLAR C4.4T/TA 9905

Engine Model:
C4.4T/TA

Engine Desc:
TURBOCHARGED

Engine Data:
Tier 3

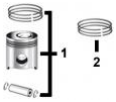
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in3/ 4.4Lt

Please see page **596** for a complete list of equipment models.

Basic Kit
(Rod Brg OD 63.5 mm)
- BBK606 Std. 3
- BBK607 0.50 3
- BBK608 1.00 3

2) **Basic Kit**
(Rod Brg OD 68 mm)
- BBK606S Std. 3
- BBK607S 0.50 3
- BBK608S 1.00 3
- SPEC SHEET - C4.4T-TA



1) **Piston & Ring Kit**
- B310-9905 Std.
- B396-4516 0.50
- B310-9905D 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

4 Per Engine

Main Bearing Set
- B353-7423 Std.
- B353-7424 0.010
- B353-7425 0.020
- B353-7426 0.030

Set of 5 Pairs

Con Rod Bearing Set
- B225-7781 Std. 1
- B233-3788 0.010 1
- B233-3789 0.020 1
- B233-3790 0.030 1
- B360-3986 Std. 2
- B468-7762 0.010 2
- B468-7769 0.020 2
- B468-7770 0.030 2

Set of 4 Pairs

Thrust Washer Set
- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs

1) **Front Seal**
- B4W-5359

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B232-7400 5
- B359-0715 6

4) **Ring Gear**
- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**
- B216-8314

1) **Top Gasket Set**
- BC44TTOG

2) **Bottom Gasket Set**
- BC44TBOG 3

3) **Head Gasket**
- B310-8520

4) **Valve Cover Gasket**
- B298-4546

5) **Timing Cover Gsk**
- B225-8287
- B226-8766

6) **Oil Pan Gasket**
- B225-6005
- B237-5932

1) **Bush, Con Rod**
- B225-5438 x4

2) **Bolt, Con Rod**
- B225-5439 x8 1
- B323-9312 x8 2

3) **Connecting Rod**
- B225-5453 1
- B359-0722 2

4) **Tensioner, Belt**
- B377-9082

1) **Bushing, Cam**
- B232-7440 x1

2) **Camshaft**
- B364-0470 4

3) **Tappet**
- B315-3384 x8

4) **Pushrod**
- B278-5126 x8

5) **Seal, Valve Stem**
- B299-5511 x16

6) **Cam and Lifter Kit**
- B364-0470KIT

Valve Train

1) **Valve, Intake**
- B309-6678 x8

2) **Valve, Exhaust**
- B339-9637 x8

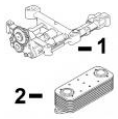
3) **Guide, Valve (Intake & Exhaust)**
- 3) B380-2073 x16

4) **Valve, Insert In**
- B377-0399 x8

5) **Valve, Insert Ex**
- B377-0400 x8

6) **Spring, Valve**
- B436-0524 x16

7) **Lock, Valve**
- B276-8123 x32



1) **Oil Pump**
- B225-8329 4

2) **Oil Cooler**
- B298-4558

3) **Balancer Unit**
- B234-0615 4

1) **Lift Pump**
- B350-4315

2) **Lift Pump**
- B232-7808 4

3) **Fuel Pump**
- B349-1063 7 Pin) 4

1) **Water Pump**
- B354-4754 4

2) **Water Pump Gasket**
- B225-8019

3) **Thermostat**
- B417-7782 4
- B367-1817 4
- B357-8714 4

4) **Thermostat Housing Gasket**
- B281-8744

1) **Repair Sleeve**
- 105RS

2) **Head Bolts**
- B225-5501 x10

3) **Turbocharger**
- B316-0477 4
- B316-0514 4

1) **Glowplug**
- B226-8770 4
- B452-3112 4

2) **Piston Cooling Nozzle**
- B276-5605

3) **Injector**
- B320-0677 4

Fuel Lines
- 1) B322-3745
- 2) B322-3746
- 3) B333-4732
- 4) B333-4733

(1): Use for rods that have a 63.5mm rod journal

(2): Use for rods that have a 68mm rod journal

(3): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.

(4): Check application for proper use.

(5): 63.5mm rod journal, splined nose

(6): 68mm rod journal, non-splined nose

Engine Model:
C6.4

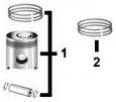
Engine Desc:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: Ø 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in
Piston Pin: Ø 34mm / 1.338 in

Please see page **597** for a complete list of equipment models.

1) **Basic Engine Kit**
- BBKC64 Std.
- SPEC SHEET - C6.4



1) **Piston & Ring Kit**
- B324-4235 Std.

6 Per Engine

2) **Ring Set**
- B178-6543 Std

Main Bearing Set
- B5I-7588 Std.
- B5I-7784 0.25
- B5I-7785 0.50
- B5I-7786 0.75

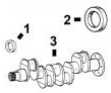
Set of 7 Pairs

Con Rod Bearings
- B294-1748 x12 Std.
- B297-7648 x12 0.25
- B297-7649 x12 0.50
- B297-7650 x12 0.75

Rod bearings are priced and sold per shell

1) **Thrust Washer**
- B5I-7654 Std.

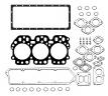
Set of 3 pcs



1) **Front Seal**
- B324-4223

2) **Rear Seal**
- B5I-7660 1

3) **Crankshaft**
- B294-1749



1) **Top Gasket Set**
- B310-9553

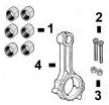
2) **Bottom Gasket Set**
- B310-9554 4

3) **Head Gasket**
- B294-1682

4) **Upper Rocker Cover Gasket**
- B294-1706

5) **Lower Rocker Cover Gasket**
- B294-1705

6) **Oil Pan Gasket**
- B5I-7666

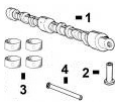


1) **Bushing, Con Rod**
- B296-4663 x6

2) **Bolt, Con Rod**
- B094-7154 x12

3) **Nut, Con Rod**
- B094-7516 x12

4) **Con Rod**
- B294-1747 x6



1) **Camshaft**
- B305-4756

2) **Tappet**
- B324-4060 x12

3) **Cam Bushing Kit**
- B3066CBS x1 2

4) **Push Rod**
- B294-1716 x12

Intake Valve
- B294-1684 x12

Valve Insert inlet
- B305-4883 x12

Exhaust Valve
- B294-1685 x12

Valve Insert exhaust
- B305-4884 x12

Valve Guide
- B305-4885 x24

Valve Keepers
- B199-2188 x48

Valve Spring
- B294-1688 x24

Valve Seals
- B199-2189 x24

Spring Retainer
- B199-2187 x24

1) **Oil Pump Ring Gear**
- B125-2950 9 Teeth
- B5I-7558 9 Teeth

2) **Oil Pump Cover Gasket**
- B178-6537

3) **Oil Cooler**
- B125-2970

4) **Oil Cooler Ports Gasket**
- B5I-7691 x2

5) **Oil Cooler Cover Gasket**
- B5I-7690

1) **Fuel Lift Pump**
- B137-5541

2) **Gasket, Fuel Lift Pump**
- B294-1820

3) **Injector**
- B326-4700 3
- B326-4756 3

4) **Injector O-Ring**
- B294-1803

5) **Injector Copper Washer**
- B1R-6573

6) **Injector Inlet Dust Seal**
- B294-1788

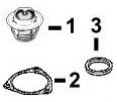
7) **Fuel Pump**
- B292-3751 x1

1) **Water Pump**
- B178-6633

2) **Gasket, Water Pump**
- B096-9528

1) **Repair Sleeve**
- B5I-7523

2) **Oil Cooling Nozzle**
- B294-1722



1) **Thermostat**
- B324-4128

2) **Outer Gasket, Thermostat**
- B5I-7735 Paper

3) **Inner Gasket, Thermostat**
- B294-1780 Rubber

(1): Includes Metal Sleeve

(2): Contains [1]B5I-8009, [2]B5I-7528, & [1]B5I-7529

(3): Check application for proper usage

(4): Front and Rear Oil Seals are sold separately.

CATERPILLAR C6.6 7475

Engine Model:
C6.6

Engine Desc:
TURBOCHARGED

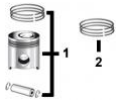
Engine Data:
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 402.76 in3 /6.6 Lt

Please see page **598** for a complete list of equipment models.

Basic Kit
- BBK707 Std — 1
- BBK708 0.50 — 1
- BBK709 1.00 — 1
- SPEC SHEET - C6.6



1) **Piston & Ring Kit**
- B276-7475 Std.
- B380-2062 0.50
- B493-3305 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

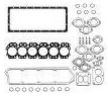
Set of 2 Pcs

1) **Front Seal**
- B277-3013

2) **Rear Seal**
- B292-0886

3) **Crankshaft Kit**
- B374-9163 — 3

4) **Ring Gear**
- B033-7687 126T



1) **Top Gasket Set**
- BC66TTOG

2) **Bottom Gasket Set**
- BC66TBOG — 1

3) **Head Gasket**
- B176-3141

4) **Valve Cover Gasket**
- B317-3064

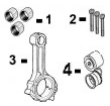
5) **Timing Cover Gsk**
- B225-8287 — 2
- B226-8766 — 2

6) **Oil Pan Gasket**
- B275-9884 — 2
- B331-4400 — 2

7) **Gasket Exh Manifold**
- B279-9361

8) **Gasket intake Manifold**
- B278-5128

9) **Rocker Cover Gasket**
- B277-5063 — 2
- B309-6664 — 2



1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Connecting Rod**
- B331-0290

4) **Tensioner, Belt**
- B377-9082

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B347-1132 — 3

3) **Tappet**
- B278-5125 x12

4) **Pushrod**
- B278-5126 x12

5) **Seal, Valve Stem**
- B299-5511 x24

6) **Cam and Lifter Kit**
- B347-1132KIT — 3

Valve Train

1) **Valve, Intake**
- B309-6678 x12

2) **Valve, Exhaust**
- B339-9637 x12

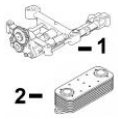
3) **Guide, Valve (Intake & Exhaust)**
- B380-2073 x24

4) **Valve, Insert In**
- B377-0399 x12

5) **Valve, Insert Ex**
- B377-0400 x12

6) **Spring, Valve**
- B436-0521 x24

7) **Lock, Valve**
- B276-8123 x48



1) **Oil Pump**
- B420-0454

2) **Oil Cooler**
- B281-7039 — 2
- B326-7401 — 2

1) **Water Pump**
- 1) B354-4754 — 2

2) **Water Pump Gasket**
- B225-8019

3) **Thermostat**
- B417-7782 — 2
- B367-1817 — 2
- B357-8714 — 2

4) **Thermostat Housing Gasket**
- B281-8744

Repair Sleeve
- 105RS

2) **Head Bolts**
- B276-8134 x14

3) **Cylinder Head**
- B309-6663UF — 3

1) **Glowplug**
- B226-8770 — 2
- B452-3112 — 2
- B453-3510 — 2

2) **Piston Cooling Nozzle**
- B276-5605

3) **Injector**
- B320-0655 — 3
- B320-0677 — 3
- B320-0690 — 3
- B321-3600 — 3

Fuel Lines
- 1) B336-8174
- 2) B336-8175
- 3) B336-8176
- 4) B336-8177
- 5) B336-8178
- 6) B336-8179

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.

Engine Model:
C6.6

Engine Desc:
TURBOCHARGED

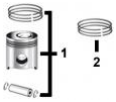
Engine Data:
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 402.76 in3 /6.6 Lt

Please see page **599** for a complete list of equipment models.

Basic Kit
- BBK710 Std. 1
- BBK711 0.50 1
- BBK712 1.00 1
- SPEC SHEET - C6.6



1) **Piston & Ring Kit**
- B282-2224 Std.
- B380-2063 0.50
- B282-2224D 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

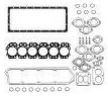
Set of 2 Pcs

1) **Front Seal**
- B277-3013

2) **Rear Seal**
- B292-0886

3) **Crankshaft Kit**
- B374-9163 3

4) **Ring Gear**
- B033-7687 126T



1) **Top Gasket Set**
- BC66TTOG

2) **Bottom Gasket Set**
- BC66TBOG 1

3) **Head Gasket**
- B176-3141

4) **Valve Cover Gasket**
- B317-3064

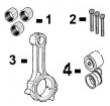
5) **Timing Cover Gsk**
- B225-8287 2
- B226-8766 2
- B291-6524 2

6) **Oil Pan Gasket**
- B275-9884 2
- B331-4400 2

7) **Gasket Exh Manifold**
- B279-9361

8) **Gasket Intake Manifold**
- B278-5128

9) **Rocker Cover Gasket**
- B277-5063 2
- B309-6664 2



1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Connecting Rod**
- B331-0290

4) **Tensioner, Belt**
- B377-9082

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B347-1132 3

3) **Tappet**
- B278-5125 x12

4) **Pushrod**
- B278-5126 x12

5) **Seal, Valve Stem**
- B299-5511 x24

6) **Cam and Lifter Kit**
- B347-1132KIT 3

Valve Train

1) **Valve, Intake**
- B309-6678 x12

2) **Valve, Exhaust**
- B339-9637 x12

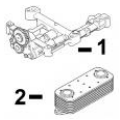
3) **Guide, Valve (Intake & Exhaust)**
- 3) B380-2073 x24

4) **Valve, Insert In**
- B377-0399 x12

5) **Valve, Insert Ex**
- B377-0400 x12

6) **Spring, Valve**
- B436-0521 x24

7) **Lock, Valve**
- B276-8123 x48



1) **Oil Pump**
- B420-0454

2) **Oil Cooler**
- B281-7039 2
- B326-7401 2

1) **Water Pump**
- B354-4754

2) **Water Pump Gasket**
- B225-8019

3) **Thermostat**
- B417-7782 4
- B367-1817 4
- B357-8714 4

4) **Thermostat Housing Gasket**
- B281-8744

Water Pump Gasket
- B225-8019

Repair Sleeve
- 105RS

2) **Head Bolts**
- B276-8134 x14

3) **Cylinder Head**
- B309-6663UF 3

1) **Glowplug**
- B226-8770 2
- B452-3112 2
- B453-3510 2

2) **Piston Cooling Nozzle**
- B276-5605

3) **Injector**
- B320-0655 3
- B320-0677 3
- B320-0690 3
- B321-3600 3

Fuel Lines
- 1) B336-8174
- 2) B336-8175
- 3) B336-8176
- 4) B336-8177
- 5) B336-8178
- 6) B336-8179

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.

CATERPILLAR C6.6 ACERT

Engine Model:
C6.6

Engine Desc:
TURBOCHARGED

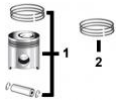
Engine Data:
Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 402.76 in3 /6.6 Lt

Please see page **600** for a complete list of equipment models.

Basic Kit
- BBK714 Std. 1
- BBK715 0.50 1
- BBK716 1.00 1
- SPEC SHEET - C6.6 ACERT



1) **Piston & Ring Kit**
- B361-2486 Std.
- B361-2590 0.50
- B451-8387 1.00

2) **Ring Set**
- B360-2028 Std.
- B449-2818 0.50
- B449-2819 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

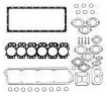
Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

Set of 2 Pcs

1) **Front Seal**
- B371-8062

2) **Rear Seal**
- B292-0886

3) **Crankshaft**
- B376-4075



1) **Top Gasket Set**
- BC66ACERTTOG

2) **Bottom Gasket Set**
- BC66ACERTBOG 2

3) **Head Gasket**
- B422-4438

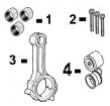
4) **Valve Cover Gasket**
- B256-7704

5) **Exhaust Manifold Gasket**
- B371-7601 x2

6) **Timing Cover Gasket - Front Side**
- B335-5330 3
- B348-9985 4

7) **Timing Cover Gasket - Rear side**
- B319-9361 5
- B330-4778 6

8) **Oil Pan Gasket**
- B331-4400 Upper
- B275-9884 Lower



1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Connecting Rod**
- B331-0290 7

4) **Tensioner, Belt**
- B377-9082

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B336-7516 7

3) **Tappet**
- B385-4313 x12

4) **Pushrod**
- B319-8426 x12

Valve Train

1) Valve, Intake
- B336-5446 x12

2) Valve, Exhaust
- B336-5447 x12

3) Guide, Valve (Intake & Exhaust)
- B356-9640 x24

4) Seal, Valve Stem
- B387-9503 x24

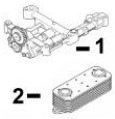
5) Valve, Insert Intake
- B322-4120 x12

6) Valve, Insert Exhaust
- B343-5964 x12

7) Spring, Valve Intake
- B436-0524 x12

Spring, Valve Exhaust
- B436-0523 x12

8) Lock, Valve
- B152-9860 x48



1) **Oil Pump**
- B374-7136

2) **Oil Cooler**
- B349-4230

1) **Water Pump**
- B397-5684

2) **Thermostat**
- B497-3990

Water Pump Gasket
- B353-8578

Repair Sleeve
- 105RS

2) Head Bolts
- B276-8134 x14

1) **Glowplug**
- B462-2235 24volts

2) **Piston Cooling Nozzle**
- B329-3796

3) **Injector**
- B370-7282

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(4): Use with timing Cover – Rear side B330-4778

(5): Use with timing Cover – Front side B335-5330

(6): Use with timing Cover – Front side B348-9985

(7): Check application for proper usage.

CATERPILLAR C7.1 – PISTON #415-4315

Engine Model:
C7.1

Engine Desc:
TURBOCHARGED

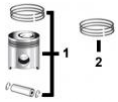
Engine Data:
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 /7.01 Lt

Please see page **601** for a complete list of equipment models.

Basic Kit
- BBK723 Std. 1
- BBK724 0.50 1
- BBK725 1.00 1



1) **Piston & Ring Kit**
- B415-4315 Std.
- B380-4848 0.50
- B380-5077 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

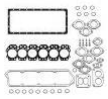
Set of 2 Pcs

1) **Front Seal**
- B277-3013

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B376-4074 3

4) **Ring Gear**
- B277-0588 134T



1) **Top Gasket Set**
- BC71ATOP

2) **Bottom Gasket Set**
- BC71ABOT 1

3) **Head Gasket**
- B359-6616

4) **Valve Cover Gasket**
- B256-7704

5) **Timing Cover Gasket - Front side**
- B225-8287 2
- B226-8766 2

6) **Timing Cover Gasket - Rear side**
- B277-3012

7) **Oil Pan Gasket**
- B351-4749 2

8) **Gasket Exhaust Manifold**
- B416-7727

9) **Gasket Intake Manifold**
- B238-8288

1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Con Rod Kit**
- B331-0290

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B350-0637 3

3) **Tappet**
- B138-2053 x12

4) **Pushrod**
- B067-6095 x12

Valve Train

1) **Valve, Intake**
- B497-1111 x6

2) **Valve, Exhaust**
- B315-3394 x6

3) **Guide, Valve**
- B335-6264 x12

4) **Spring, Valve**
- B436-0520 x12

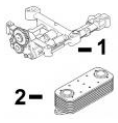
5) **Valve, Insert Intake**
- B335-6266 x6

6) **Valve, Insert Exhaust**
- B381-6236 x6

7) **Seal, Valve Stem Intake**
- B252-6438 x6

8) **Seal, Valve Stem Exhaust**
- B254-3954 x6

9) **Lock, Valve**
- B315-3393 x24

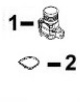


1) **Oil Pump**
- B420-0454

2) **Oil Cooler**
- B281-7039 2

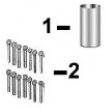
1) **Water Pump**
- B354-4754

2) **Water Pump Gasket**
- B225-8019



1) **Thermostat**
- B417-7782

2) **Thermostat Housing Gasket**
- B281-8744



Repair Sleeve
- 105RS

2) **Head Bolts**
- B335-7055 x14

1) **Glowplug**
- B298-3484 2

2) **Piston Cooling Nozzle**
- B329-3796

3) **Turbocharger**
- 2) B431-4572

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.
(4): Included in the Bottom Set

CATERPILLAR C7.1 – PISTON #575-3355

Engine Model:
C7.1

Engine Desc:
TURBOCHARGE

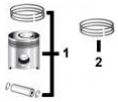
Engine Data:
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 /7.01 Lt

Please see page **602** for a complete list of equipment models.

Basic Kit
- BBK726 Std. 1
- BBK727 0.50 1
- BBK728 1.00 1



1) **Piston & Ring Kit**
- B575-3355 Std.
- B574-9871 0.50
- B574-9881 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

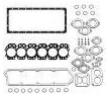
Set of 2 Pcs

1) **Front Seal**
- B277-3013

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B376-4074 3

4) **Ring Gear**
- B6I-2997 156T



1) **Top Gasket Set**
- BC71BTOP

2) **Bottom Gasket Set**
- BC71BBOT 1

3) **Head Gasket**
- B388-4707

4) **Valve Cover Gasket**
- B527-1641 Upper
- B566-7931 Lower

5) **Timing Cover Gasket - Front side**
- B225-8287 2
- B226-8766 2

6) **Timing Cover Gasket - Rear side**
- B277-3012

7) **Oil Pan Gasket**
- B351-4749 2

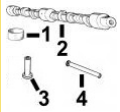
8) **Exhaust Manifold Gasket**
- B416-7727

9) **Intake Manifold Gasket**
- B238-8288

1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Con Rod Kit**
- B331-0290



1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B395-1802 3

3) **Tappet**
- B278-5125 x12

4) **Pushrod**
- B278-5126 x12

Valve Train

1) **Valve, Intake**
- B309-6678 x12

2) **Valve, Exhaust**
- B339-9637 x12

3) **Guide, Valve**
- B380-2073 x24

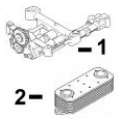
4) **Spring, Valve**
- B436-0521 x24

5) **Valve, Insert Intake**
- B377-0399 x12

6) **Valve, Insert Exhaust**
- B377-0400 x12

7) **Seal, Valve Intake**
- B299-5511 x24

9) **Lock, Valve**
- B276-8123 x48

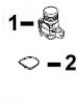


1) **Oil Pump**
- B420-0454

2) **Oil Cooler**
- B287-7424 2

1) **Water Pump**
- B354-4754

2) **Water Pump Gasket**
- B225-8019



1) **Thermostat**
- B417-7782

2) **Thermostat Housing Gasket**
- B281-8744

Repair Sleeve
- 105RS

2) **Head Bolts**
- B335-7055 x14

1) **Glowplug**
- B298-3484 2

2) **Piston Cooling Nozzle**
- B329-3796

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.
(4): Included in the Bottom Set

CATERPILLAR C7.1 – PISTON #389-5891

Engine Model:
C7.1

Engine Desc:
TURBOCHARGED

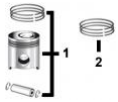
Engine Data:
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 /7.01 Lt

Please see page **603** for a complete list of equipment models.

Basic Kit
- BBK738 Std. 1
- BBK739 0.50 1
- BBK740 1.00 1



1) **Piston & Ring Kit**
- B389-5891 Std.
- B380-4849 0.50
- B380-5078 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

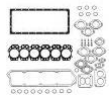
Set of 2 Pcs

1) **Front Seal**
- B277-3013

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B376-4074 3

4) **Ring Gear**
- B277-0588 134T



1) **Top Gasket Set**
- BC71ATOP

2) **Bottom Gasket Set**
- BC71ABOT 1

3) **Head Gasket**
- B359-6616

4) **Valve Cover Gasket**
- B256-7704

5) **Timing Cover Gasket - Front side**
- B225-8287 2
- B226-8766 2

6) **Timing Cover Gasket - Rear side**
- B277-3012

7) **Oil Pan Gasket**
- B351-4749 2

8) **Gasket Exhaust Manifold**
- B416-7727

9) **Gasket Intake Manifold**
- B238-8288

1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Con Rod Kit**
- B331-0290

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B350-0637 3

3) **Tappet**
- B138-2053 x12

4) **Pushrod**
- B067-6095 x12

Valve Train

1) **Valve, Intake**
- B497-1111 x6

2) **Valve, Exhaust**
- B315-3394 x6

3) **Guide, Valve**
- B335-6264 x12

4) **Spring, Valve**
- B436-0520 x12

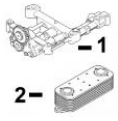
5) **Valve, Insert Intake**
- B335-6266 x6

6) **Valve, Insert Exhaust**
- B381-6236 x6

7) **Seal, Valve Stem Intake**
- B252-6438 x6

8) **Seal, Valve Stem Exhaust**
- B254-3954 x6

9) **Lock, Valve**
- B315-3393 x24

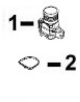


1) **Oil Pump**
- B420-0454

2) **Oil Cooler**
- B281-7039 2

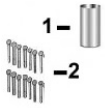
1) **Water Pump**
- B354-4754

2) **Water Pump Gasket**
- B225-8019



1) **Thermostat**
- B417-7782

2) **Thermostat Housing Gasket**
- B281-8744



Repair Sleeve
- 105RS

2) **Head Bolts**
- B335-7055 x14

1) **Glowplug**
- B298-3484 2

2) **Piston Cooling Nozzle**
- B329-3796

3) **Turbocharger**
- 2) B431-4572

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.
(4): Included in the Bottom Set

CATERPILLAR C7.1 – PISTON #444-2190

Engine Model:
C7.1

Engine Desc:
TURBOCHARGE

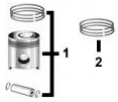
Engine Data:
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 /7.01 Lt

Excavator
320
320D
320D2 FM
323
326
330
333

Basic Kit
- BBK754 Std. 1
- BBK755 0.50 1
- BBK756 1.00 1



1) **Piston & Ring Kit**
- B444-2190 Std.
- B391-3732 0.50
- B391-3735 1.00

2) **Ring Set**
- B276-7476 Std.
- B380-2065 0.50
- B466-4849 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

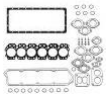
Set of 2 Pcs

1) **Front Seal**
- B277-3013

2) **Rear Seal**
- B232-7449

3) **Crankshaft Kit**
- B376-4074 3

4) **Ring Gear**
- B6I-2997 156T



1) **Top Gasket Set**
- BC71BTOP

2) **Bottom Gasket Set**
- BC71BBOT 1

3) **Head Gasket**
- B388-4707

4) **Valve Cover Gasket**
- B527-1641 Upper
- B566-7931 Lower

5) **Timing Cover Gasket - Front side**
- B225-8287 2
- B226-8766 2

6) **Timing Cover Gasket - Rear side**
- B277-3012

7) **Oil Pan Gasket**
- B351-4749 2

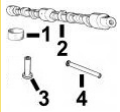
8) **Exhaust Manifold Gasket**
- B416-7727

9) **Intake Manifold Gasket**
- B238-8288

1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Con Rod Kit**
- B331-0290



1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B395-1802 3

3) **Tappet**
- B278-5125 x12

4) **Pushrod**
- B278-5126 x12

Valve Train

1) **Valve, Intake**
- B309-6678 x12

2) **Valve, Exhaust**
- B339-9637 x12

3) **Guide, Valve**
- B380-2073 x24

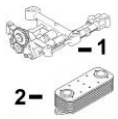
4) **Spring, Valve**
- B436-0521 x24

5) **Valve, Insert Intake**
- B377-0399 x12

6) **Valve, Insert Exhaust**
- B377-0400 x12

7) **Seal, Valve Intake**
- B299-5511 x24

9) **Lock, Valve**
- B276-8123 x48

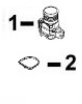


1) **Oil Pump**
- B420-0454

2) **Oil Cooler**
- B287-7424 2

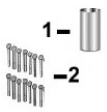
1) **Water Pump**
- B354-4754

2) **Water Pump Gasket**
- B225-8019



1) **Thermostat**
- B417-7782

2) **Thermostat Housing Gasket**
- B281-8744



Repair Sleeve
- 105RS

2) **Head Bolts**
- B335-7055 x14

1) **Glowplug**
- B298-3484 2

2) **Piston Cooling Nozzle**
- B329-3796

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.
(4): Included in the Bottom Set

CATERPILLAR C7.1 – PISTON #361-2460 ACERT

Engine Model:
C7.1

Engine Desc:
TURBOCHARGED

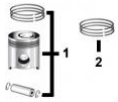
Engine Data:
Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 /7.01 Lt

Please see page **604** for a complete list of equipment models.

Basic Kit
- BBK730 Std. 1
- BBK731 0.50 1
- BBK732 1.00 1



1) **Piston & Ring Kit**
- B361-2460 Std.
- B361-5413 0.50
- B361-5414 1.00

2) **Ring Set**
- B360-2028 Std.
- B449-2818 0.50
- B449-2819 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

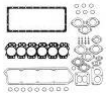
Set of 2 Pcs

1) **Front Seal**
- B371-8062

2) **Rear Seal**
- B292-0886

3) **Crankshaft**
- B376-4074

4) **Ring Gear**
- B277-0588 134T



1) **Top Gasket Set**
- BC71CTOP

2) **Bottom Gasket Set**
- BC71CBOT 2

3) **Head Gasket**
- B422-4438

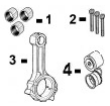
4) **Valve Cover Gasket**
- B256-7704

5) **Exhaust Manifold Gasket**
- B371-7601 x2

6) **Timing Cover Gasket - Front Side**
- B335-5330 3
- B348-9985 4

7) **Timing Cover Gasket - Rear side**
- B319-9361 5
- B330-4778 6

8) **Oil Pan Gasket**
- B331-4400 Upper
- B275-9884 Lower

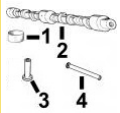


1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Connecting Rod**
- B331-0292 7

Belt Tensioner
- B377-9082



1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B336-7516 7

3) **Tappet**
- B385-4313 x12

4) **Pushrod**
- B319-8426 x12

Valve Train

1) Valve, Intake
- B336-5446 x12

2) Valve, Exhaust
- B336-5447 x12

3) Guide, Valve (Intake & Exhaust)
- B356-9640 x24

4) Seal, Valve Stem
- B387-9503 x24

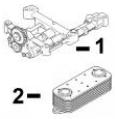
5) Valve, Insert Intake
- B322-4120 x12

6) Valve, Insert Exhaust
- B343-5964 x12

7) Spring, Valve Intake
- B436-0524 x12

Spring, Valve Exhaust
- B436-0523 x12

8) Lock, Valve
- B152-9860 x48



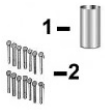
1) **Oil Pump**
- B374-7136

2) **Oil Cooler**
- B444-9675

1) **Water Pump**
- B397-5682

2) **Water Pump Gasket**
- B353-8578

Thermostat
- B497-3989



Repair Sleeve
- 105RS

2) **Head Bolts**
- B276-8134 x14

1) **Glowplug**
- B462-2235 24volts

2) **Piston Cooling Nozzle**
- B329-3796

3) **Injector**
- B370-7281

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(4): Use with timing Cover – Rear side B330-4778

(5): Use with timing Cover – Front side B335-5330

(6): Use with timing Cover – Front side B348-9985

(7): Check application for proper usage.

CATERPILLAR C7.1 – PISTON #436-7786 ACERT

Engine Model:
C7.1

Engine Desc:
TURBOCHARGED

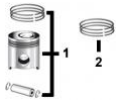
Engine Data:
Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13in / 105.00mm
Stroke: 5.3in / 135.00mm
Displacement: 427.7 in3 /7.01 Lt

Please see page **605** for a complete list of equipment models.

Basic Kit
- BBK734 Std. 1
- BBK735 0.50 1
- BBK736 1.00 1



1) **Piston & Ring Kit**
- B436-7786 Std.
- B421-7753 0.50
- B421-7757 1.00

2) **Ring Set**
- B360-2028 Std.
- B449-2818 0.50
- B449-2819 1.00

6 Per Engine

Main Bearing Set
- B360-1978 Std.
- B454-3745 0.010
- B454-3931 0.020
- B454-3935 0.030

Set of 7 Pairs

Con Rod Bearing Set
- B360-1564 Std.
- B458-7918 0.010
- B458-7939 0.020
- B458-7940 0.030

Set of 6 Pairs

Thrust Washer Set
- B364-5145 Std.
- B448-4227 0.007

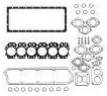
Set of 2 Pcs

1) **Front Seal**
- B371-8062

2) **Rear Seal**
- B292-0886

3) **Crankshaft**
- B376-4074

4) **Ring Gear**
- B033-7687 126T



1) **Top Gasket Set**
- BC71DTOP

2) **Bottom Gasket Set**
- BC71DBOT 2

3) **Head Gasket**
- B424-8881

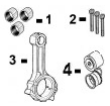
4) **Valve Cover Gasket**
- B256-7704

5) **Exhaust Manifold Gasket**
- B371-7601 x2

6) **Timing Cover Gasket - Front Side**
- B335-5330 3
- B348-9985 4

7) **Timing Cover Gasket - Rear side**
- B319-9361 5
- B330-4778 6

8) **Oil Pan Gasket**
- B331-4400 Upper
- B275-9884 Lower



1) **Bush, Con Rod**
- B276-7478 x6

2) **Bolt, Con Rod**
- B323-9312 x12

3) **Connecting Rod**
- B331-0290 x6 7

Belt Tensioner
- B377-9082

1) **Bushing, Cam**
- B276-5601 x1

2) **Camshaft**
- B336-7516 7

3) **Tappet**
- B385-4313 x12

4) **Pushrod**
- B319-8426 x12

Valve Train

1) **Valve, Intake**
- B336-5446 x12

2) **Valve, Exhaust**
- B336-5447 x12

3) **Guide, Valve (Intake & Exhaust)**
- B356-9640 x24

4) **Seal, Valve Stem**
- B387-9503 x24

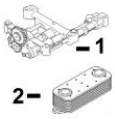
5) **Valve, Insert Intake**
- B322-4120 x12

6) **Valve, Insert Exhaust**
- B343-5964 x12

7) **Spring, Valve Intake**
- B436-0524 x12

Spring, Valve Exhaust
- B436-0523 x12

8) **Lock, Valve**
- B152-9860 x48



1) **Oil Pump**
- B374-7136

2) **Oil Cooler**
- B444-9675

1) **Water Pump**
- B397-5682

2) **Thermostat**
- B497-3989

Water Pump Gasket
- B353-8578

Repair Sleeve
- 105RS

2) **Head Bolts**
- B276-8134 x14

1) **Glowplug**
- B462-2235 24volts

2) **Piston Cooling Nozzle**
- B329-3796

3) **Injector**
- B370-7282

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(4): Use with timing Cover – Rear side B330-4778

(5): Use with timing Cover – Front side B335-5330

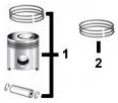
(6): Use with timing Cover – Front side B348-9985

(7): Check application for proper usage.

Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
3TNE82A	Direct Injection Non-Turbo	3 Cyl	Bore: 3.22 in / 82.00 mm Stroke: 3.30 in / 84.00 mm

Please see page **606** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNE82A
- YOK3TNE82A/25
- SPEC SHEET - YOK3TNE82A



1) **Piston & Ring Kit**
- Y119813-22080 Std.
- Y119813-22900 0.25

Use 3

2) **Ring Set**
- Y119813-22500 Std.
- Y129003-22950 0.25

Main Bearing
- Y119810-02800 Std.
- Y119810-02870 0.25

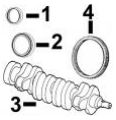
Use 1 Sold by SET

Con Rod Bearing
- Y119810-23600 Std.
- Y119810-23610 0.25

Use 1 Sold by Set

Thrust Washers
- Y119717-02930

Use 1 Sold as Set



1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y119810-01780 76x93x10mm 1
- Y129795-01780 85x102x13mm 1

3) **Crankshaft**
- Y119813-21000 2

4) **Flywheel Ring Gear**
- Y119865-21600 1

1) **O/H Gasket Set**
- Y719823-92780

2) **Head Gasket**
- Y119812-01330

3) **Liquid Gasket**
- Y977770-1207F

1) **Bushing, Con Rod**
- Y119810-23910 x3

2) **Bolt, Con Rod**
- Y119810-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

5) **Bolt, Cylinder Head**
- Y119810-01200

1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y119810-14580 3

3) **Push Rod**
- Y119810-14400 x6

Valve, Intake
- Y119810-11100 x3

Valve, Exhaust
- Y119810-11110 x3

Guide, Valve Intake
- Y124060-11800 x3

Guide, Valve Exhaust
- Y119802-11810 x3

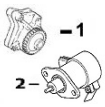
Stem, Seal Intake
- Y124160-11340 x3

Stem, Seal Exhaust
- Y124950-11340 x3

Spring, Valve
- 119810-11120 x6

Lock, Valve
- Y127310-070001 x12

1) **Thermostat**
- Y129155-49800



1) **Oil Pump**
- Y129001-32001 1

2) **Solenoid, Fuel Stop**
- Y119653-77950 1

Lift Pump
- Y129100-52101-Z

1) **Water Pump**
- Y119810-42001 1

2) **Water Pump Gasket**
- Y129150-42020

Repair Sleeve
- 82RS

(1): Check your application for proper usage.

(2): Gear not included.

Engine Model:
3TNE84 / 3TNE84T

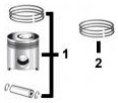
Engine Data:
G1 GH G1A

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.30 in / 84.00 mm Stroke: 3.54 in / 90.00 mm

Please see page **607** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNE84D
- YOK3TNE84D/25
- SPEC SHEET - YOK3TNE84D



1) **Piston & Ring Kit**
- Y129002-22090 Std.
- Y129002-22910 0.25

Use 3

2) **Ring Set**
- Y129002-22510 Std.
- Y129002-22960 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

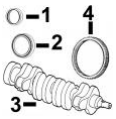
Use 4 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 3 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4



1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129001-21100 3

4) **Flywheel Ring Gear**
- Y124550-21600 127T 1

1) **O/H Gasket Set**
- YMGS3TNE84 4

2) **Head Gasket**
- Y129002-01331 5

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129150-11310

1) **Bushing, Con Rod**
- Y129100-23910 x3

2) **Bolt, Con Rod**
- Y121550-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200

1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y129129-14580 3

3) **Push Rod**
- Y129150-14400 x6

Valve, Intake
- Y129100-11100 x3

Valve, Exhaust
- Y129100-11130 x3

Guide, Valve

1) Intake
- Y120130-11860 x3

2) Exhaust
- Y129150-11810 x3

1) Lock, Valve
- Y27310-080001 x12

2) Stem, Seal Intake
- Y124460-11340 x3

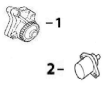
3) Stem, Seal Exhaust
- Y121400-11340 x3

1) Spring, Valve
- Y129795-11120 x6

2) Cap, Valve
- Y129150-11370

1) **Thermostat**
- Y129155-49801

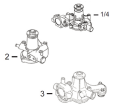
2) **Injector**
- Y729503-53100 1



1) **Oil Pump**
- Y129001-32001 1

2) **Solenoid, Fuel Stop**
- Y119653-77950 1

Lift Pump
- Y129100-52101-Z



Water Pump
- 1) Y129001-42004 1
- 2) Y129100-42004 1
- 3) Y129263-42000 1
- 4) Y129508-42001 2

Water Pump Gasket
- Y129486-42021

Repair Sleeve
- 84RS

(1): Check your application for proper usage.
(2): Like Y129001-42004, with Inject Pump cooling connections.
(3): Gear not included.
(4): Includes Y129002-01331 MLS Head Gasket – 2 Notches
(5): MLS – 2 Notches

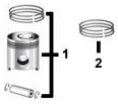
Engine Model:
4TNE84

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.30 in / 84.00 mm Stroke: 3.54 in / 90.00 mm

Please see page **608** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNE84D
- YOK4TNE84D/25
- SPEC SHEET - YOK4TNE84D



1) **Piston & Ring Kit**
- Y129002-22090 Std.
- Y129002-22910 0.25

Use 4

2) **Ring Set**
- Y129002-22510 Std.
- Y129002-22960 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4

1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129407-21000 3

4) **Flywheel Ring Gear**
- Y124550-21600 127T 1

1) **O/H Gasket Set**
- YMGS4TNE84

2) **Head Gasket**
- Y129408-01330

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129550-11310

1) **Bushing, Con Rod**
- Y129100-23910 x4

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200

1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y729402-14580 3

3) **Push Rod**
- Y129150-14400 x8

Valve, Intake
- Y129100-11100 x4

Valve, Exhaust
- Y129100-11130 x4

Guide, Valve

1) **Intake**
- Y120130-11860 x4

2) **Exhaust**
- Y129150-11810 x4

1) **Lock, Valve**
- Y27310-080001 x16

2) **Stem, Seal Int**
- Y124460-11340 x4

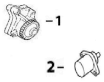
3) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129795-11120 x8

2) **Cap, Valve**
- Y129150-11370

1) **Thermostat**
- Y129155-49801

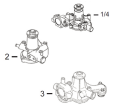
2) **Injector**
- Y729503-53100 1



1) **Oil Pump**
- Y129001-32001 1

2) **Solenoid, Fuel Stop**
- Y119653-77950 1

Lift Pump
- Y129100-52101-Z



Water Pump
- 1) Y129001-42004 1
- 2) Y129100-42004 1
- 3) Y129263-42000 1
- 4) Y129508-42001 2

Water Pump Gasket
- Y129486-42021

Repair Sleeve
- 84RS

(1): Check your application for proper usage.
(2): Like Y129001-42004, with Inject Pump cooling connections.
(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

Engine Model:
TK486

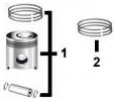
Engine Desc:
Thermo King

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.38 in / 86.00 mm
Stroke: 3.54 in / 90.00 mm

Thermo-King
SB-110
SB-190
SB-200
SB-210
SB-300
SB-310
SB-430

Engine O/H Kit
- YOKTK486
- YOKTK486/25
- YOKTK486/50
- SPEC SHEET - YOKTK486



1) **Piston & Ring Kit**
- Y11-8948 Std.
- Y11-8955 0.25
- Y11-8958 0.50

Use 4

2) **Ring Set**
- Y13-355 Std.
- Y13-461 0.25
- Y13-455 0.50

Main Bearing
- Y129001-02931 Std.
- (13-920)
- Y129150-02871 0.25
- (13-921)

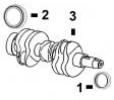
Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- (13-924)
- Y129150-23611 0.25
- (13-925)

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931
- (13-927)

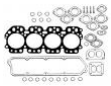
Set of 4



1) **Front Seal**
- Y129795-01800
- (33-4088)

2) **Rear Seal**
- Y129795-01780 1
- Y33-2974 2

3) **Crankshaft**
- Y129407-21000 3
- (13-351)

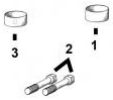


1) **O/H Gasket Set**
- YMGS4TNE88 4

2) **Head Gasket**
- Y129407-01340
- (33-4122)

3) **Liquid Gasket**
- Y977770-1207F

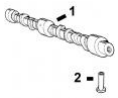
4) **Rocker Cover Gsk**
- Y129160-11310
- (13-340)



1) **Bush, Con Rod**
- Y129100-23910 x4
- (11-8953)

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1
- (13-926)



1) **Tappet**
- Y129150-14200 x8
- (11-6717)

2) **Camshaft**
- Y729402-14580
- (11-9261)

Valve, Intake
- Y129100-11100 x4
- (11-8930)

Valve, Exhaust
- Y129100-11130 x4
- (13-659)

Guide, Valve

1) Intake
- Y120130-11860 x4
- (11-8928)

2) Exhaust
- Y129150-11810 x4
- (11-8929)

1) Stem, Seal Int
- Y124460-11340 x4
- (11-8935)

2) Stem, Seal Exh
- Y121400-11340 x4
- (11-8934)

Spring, Valve
- Y129795-11120 x8
- (11-8932)

1) **Thermostat**
- Y129155-49801
- (13-385)

2) **Injector**
- Y729503-53100
- (11-8715)

1) **Oil Pump**
- Y129001-32001 5
- (11-9249)

2) **Oil Cooler**
- Y129508-33030

Water Pump High Mount
- Y129263-42000
- (11-9451)

Water Pump Low Mount
- Y129001-42004
- (13-509)

Repair Sleeve
- 86RS

(1): For engines with serial before K00251.

(2): Engines with serial numbers K00251 and after.

(3): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.

(4): O/H Gasket does not include Rear Seal Y33-2974. Please order separately.

(5): Check application for proper usage.

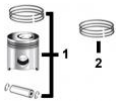
Engine Model: 3TNE88

Engine Info: 3 Cyl

Engine Dimensions: Bore: 3.46 in / 88.00 mm

Please see page **609** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNE88
- YOK3TNE88/25
- SPEC SHEET - YOK3TNE88



1) **Piston & Ring Kit**
- Y129001-22081 Std.
- Y129001-22901 0.25

Use 3

2) **Ring Set**
- Y129001-22500 Std.
- Y129001-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

Use 4 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 3 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4

1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129001-21100 1

4) **Flywheel Ring Gear**
- Y124550-21600 127T 2

1) **O/H Gasket Set**
- YMGS3TNE88

2) **Head Gasket**
- Y129001-01340

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129150-11310

1) **Bush, Con Rod**
- Y129100-23910 x3

2) **Bolt, Con Rod**
- Y121550-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200 x14

1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y129129-14580 1

3) **Push Rod**
- Y129150-14400 x6

Valve, Intake
- Y129100-11100 x3

Valve, Exhaust
- Y129100-11130 x3

Guide, Valve

1) **Intake**
- Y120130-11860 x3

2) **Exhaust**
- Y129150-11810 x3

1) **Stem, Seal Int**
- Y124460-11340 x3

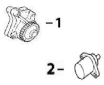
2) **Stem, Seal Exh**
- Y121400-11340 x3

1) **Spring, Valve**
- Y129795-11120 x6

2) **Cap, Valve**
- Y129150-11370

1) **Thermostat**
- Y129155-49801

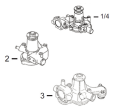
2) **Injector**
- Y729503-53100 2



1) **Oil Pump**
- Y129001-32001 2

2) **Solenoid, Fuel Stop**
- Y119653-77950 2

Lift Pump
- Y129100-52101-Z



Water Pump
- 1) Y129001-42004 2
- 2) Y129100-42004 2
- 3) Y129263-42000 2
- 4) Y129508-42001 3

Water Pump Gasket
- Y129486-42021

Repair Sleeve
- 88RS

(1): Gear not included.
(2): Check your application for proper usage.
(3): Like Y129001-42004, with Inject Pump cooling connections.

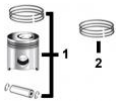
Engine Model:
4TNE88

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.46 in / 88.00 mm

Please see page **610** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNE88
- YOK4TNE88/25
- SPEC SHEET - YOK4TNE88



1) **Piston & Ring Kit**
- Y129001-22081 Std.
- Y129001-22901 0.25

Use 4

2) **Ring Set**
- Y129001-22500 Std.
- Y129001-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

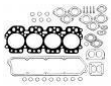
Set of 4

1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129407-21000 1

4) **Flywheel Ring Gear**
- Y124550-21600 127T 3



1) **O/H Gasket Set**
- YMGS4TNE88

2) **Head Gasket**
- Y129407-01340

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129550-11310

1) **Bush, Con Rod**
- Y129100-23910 x4

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200

1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y729402-14580

3) **Push Rod**
- Y129150-14400 x8

Valve, Intake
- Y129100-11100 x4

Valve, Exhaust
- Y129100-11130 x4

Guide, Valve

1) **Intake**
- Y120130-11860 x4

2) **Exhaust**
- Y129150-11810 x4

1) **Stem, Seal Int**
- Y124460-11340 x4

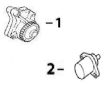
2) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129795-11120 x8

2) **Cap, Valve**
- Y129150-11370

1) **Thermostat**
- Y129155-49801

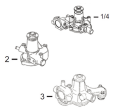
2) **Injector**
- Y729503-53100 2



1) **Oil Pump**
- Y129001-32001 1

2) **Solenoid, Fuel Stop**
- Y119653-77950 3

Lift Pump
- Y129100-52101-Z



Water Pump
- 1) Y129001-42004 1
- 2) Y129100-42004 1
- 3) Y129263-42000 1
- 4) Y129508-42001 2

Water Pump Gasket
- Y129486-42021

Repair Sleeve
- 88RS

(1): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.
(2): Like Y129001-42004, with Inject Pump cooling connections.
(3): Check application for proper usage.

Engine Model:
4TNE92

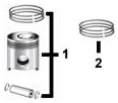
Engine Data:
INDIRECT INJECTION

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.62 in / 92.00 mm Stroke: 3.937 in / 100 mm

Please see page **611** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNE92
- YOK4TNE92/25
- SPEC SHEET - YOK4TNE92



1) **Piston & Ring Kit**
- Y129904-22120 Std.
- Y129904-22940 0.25

Use 4

2) **Ring Set**
- Y129904-22050 Std.
- Y129904-22950 0.25

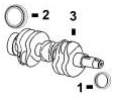
Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

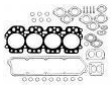
Thrust Washers
- Y129900-02931 Std.
- SET OF 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129900-21000



1) **O/H Gasket Set** 3
- Y729901-92710

2) **Head Gasket**
- Y729901-01350

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129900-11310

5) **Gasket, Manifold to Muffler**
- Y129400-13201

6) **Gasket, Air Heater**
- Y121850-77021

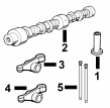
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129900-14580

3) **Rocker Arm Intake**
- Y129900-11650 1

4) **Rocker Arm Exhaust**
- Y129900-11660 1

5) **Push Rod**

Valve, Intake
- Y129900-11100 x4

Valve, Exhaust
- Y129900-11110 x4

Guide, Valve
- Y129150-11810 x8

1) **Lock, Valve**
- Y27310-080001 x16

2) **Stem, Seal Int**
- Y124460-11340 x4

3) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129900-11120 x8

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811
- Y121850-49801

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y129612-52100

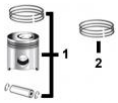
Water Pump
- Y129900-42002
- Y129900-42055 2

(1): Check your application for proper usage.
(2): Forklift applications
(3): Front and Rear crank seals are sold separately.

Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
4TNE94	DIRECT INJECTION	4 Cyl	Bore: 3.70 in / 94.00 mm Stroke: 3.937 in / 100 mm

Please see page **612** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNE94
- YOK4TNE94/25
- SPEC SHEET - YOK4TNE94



1) **Piston & Ring Kit**
- Y129900-22080 Std.
- Y129900-22900 0.25

Use 4

2) **Ring Set**
- Y129901-22050 Std.
- Y129901-22950 0.25

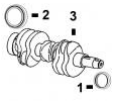
Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

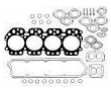
Thrust Washers
- Y129900-02931 Std.
- SET OF 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129900-21000



1) **O/H Gasket Set**
- YMGS4TNE94

2) **Head Gasket**
- Y129900-01331

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129900-11310

5) **Gasket, Manifold to Muffler**
- Y129400-13201

6) **Gasket, Air Heater**
- Y121850-77021

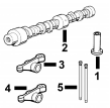
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129900-14580

3) **Rocker Arm Intake**
- Y129900-11650 [1]

4) **Rocker Arm Exhaust**
- Y129900-11660 [1]

5) **Push Rod**

Valve, Intake
- Y129900-11100 x4

Valve, Exhaust
- Y129900-11110 x4

Guide, Valve
- Y129150-11810 x8

1) **Lock, Valve**
- Y27310-080001 x16

2) **Stem, Seal Int**
- Y124460-11340 x4

3) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129900-11120 x8

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811
- Y121850-49801

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129900-42002
- Y129900-42055 [2]

Repair Sleeve
- 94RS

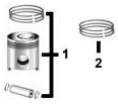
(1): Check your application for proper usage.

(2): Forklift applications

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNE98	DIRECT INJECTION	4 Cyl	Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **613** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNE98D
- YOK4TNE98D/25
- SPEC SHEET - YOK4TNE98D



1) **Piston & Ring Kit**
- Y129902-22080 Std.
- Y129902-22900 0.25

Use 4

2) **Ring Set**
- Y129903-22050 Std.
- Y129903-22950 0.25

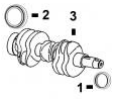
Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

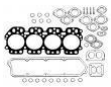
Thrust Washers
- Y129900-02931 Std.
- SET OF 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129902-21000



1) **O/H Gasket Set**
- YMGS4TNE98 2

2) **Head Gasket**
- Y129902-01331 2

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129900-11310

5) **Gasket, Manifold to Muffler**
- Y129400-13201

6) **Gasket, Air Heater**
- Y121850-77021

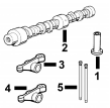
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129900-14580

3) **Rocker Arm Intake**
- Y129900-11650 1

4) **Rocker Arm Exhaust**
- Y129900-11660 1

5) **Push Rod**

Valve, Intake
- Y129900-11100 x4

Valve, Exhaust
- Y129900-11110 x4

Guide, Valve
- Y129150-11810 x8

1) **Lock, Valve**
- Y27310-080001 x16

2) **Stem, Seal Int**
- Y124460-11340 x4

3) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129900-11120 x8

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811 1
- Y121850-49801 1

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129900-42002

Repair Sleeve
- 98RS

(1): Check your application for proper usage.

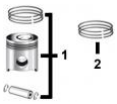
(2): Head gasket is MLS material. Please check application for proper usage.

YANMAR 4TNE98 INDIRECT INJECTION

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNE98	INDIRECT INJECTION	4 Cyl	Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Yanmar Engine Model		Komatsu Engine Model		Kohler	Mustang
4TNE98-BQCKS	4TNE98-BQDFC	4D98E-1AGD-F	4D98E-1G45-BM	32EOZ	MTL16
4TNE98-BQFLC	4TNE98-HAF	4D98E-1GD-F			
4TNE98-NMH	4TNE98-HYF				
	4TNE98-BQCKM				

Engine O/H Kit
- YOK4TNE98-IND
- YOK4TNE98/25-IND
- SPEC SHEET - YOK4TNE98-IND



1) **Piston & Ring Kit**
- Y129903-22081 Std.
- Y129903-22901 0.25

Use 4

2) **Ring Set**
- Y129903-22050 Std.
- Y129903-22950 0.25

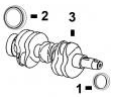
Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

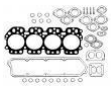
Thrust Washers
- Y129900-02931 Std.
- SET OF 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129902-21000



1) **O/H Gasket Set** 2
- YMGS4TNE98-IND

2) **Head Gasket** 2
- Y729903-01350

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129900-11310

5) **Gasket, Manifold to Muffler**
- Y129400-13201

6) **Gasket, Air Heater**
- Y121850-77021

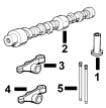
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129900-14580

3) **Rocker Arm Intake** 1
- Y129900-11650

4) **Rocker Arm Exhaust** 1
- Y129900-11660

5) **Push Rod**

Valve, Intake
- Y129900-11100 x4

Valve, Exhaust
- Y129900-11110 x4

Guide, Valve
- Y129150-11810 x8

1) **Lock, Valve**
- Y27310-080001 x16

2) **Stem, Seal Int**
- Y124460-11340 x4

3) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129900-11120 x8

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811 1
- Y121850-49801 1

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129900-42002 1
- Y129900-42055 1

Repair Sleeve
- 98RS

Glow Plug
- Y129155-77800

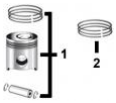
(1): Check your application for proper usage.

(2): Head gasket is composite material. Please check application for proper usage.

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNE106D	TIER 1	4 Cyl	Bore: 4.17 in / 106.00 mm

Please see page **614** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNE106
- YOK4TNE106/25
- SPEC SHEET - YOK4TNE106



1) **Piston & Ring Kit**
- Y123900-22080 Std.
- Y123900-22900 0.25

Use 4

2) **Ring Set**
- Y123900-22050 Std.
- Y123900-22950 0.25

Main Bearing
- Y723900-02800 Std.
- Y123900-02340 0.25

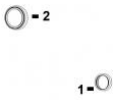
Set of 5 Pairs

Con Rod Bearing
- Y123900-23600 Std.
- Y123900-23610 0.25

Set of 4 Pairs

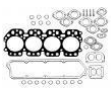
Thrust Washers
- Y123900-02930

Set of 4



1) **Front Seal**
- Y123900-01780

2) **Rear Seal**
- Y123672-01782



1) **O/H Gasket Set**
- Y723900-92630

2) **Head Gasket**
- Y123900-01340

3) **Rocker Cover Gasket**
- Y123900-11310

1) **Bush, Con Rod**
- Y123900-23910 x4

2) **Bolt, Con Rod**
- Y123900-23200 x8

3) **Bushing, Cam**
- Y123900-02410 x1

4) **Connecting Rod**
- Y123900-23000

5) **Bolt, Cylinder Head**
- Y119174-01200

Valve, Intake
- Y123900-11100 x4

Valve, Exhaust
- Y123900-11110 x4

Guide, Valve
- Y119000-11810 x8

1) **Lock, Valve**
- Y27310-090000 x16

2) **Stem, Seal Int**
- Y121850-11150 x8

Spring, Valve
- Y123900-11120 x8

Thermostat
- Y124610-48620

Oil Pump
- Y123900-32001

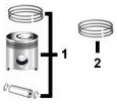
Water Pump
- Y123900-42101

Repair Sleeve
- 106RS

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNE106T	TIER 1	4 Cyl	Bore: 4.17 in / 106.00 mm

Yanmar Engine Models		Komatsu Engine Models		Komatsu		Gehl		Takeuchi
4TNE106T-G1A	4TNE106T-ML	4D106T	4D106-1FA	PC110R-1	PW110R-1	7800 - Skid Steer	SL7800 - Skid Steer	TL150
4TNE106T-NS	4TNE106T-SA			WB150PS-2	WB150WSC-2			
4TNE106T-TBL				WB93R-2	WB97R-2			
				WB97S-2	WB98A-2			

Engine O/H Kit
- YOK4TNE106T
- YOK4TNE106T/25
- SPEC SHEET - YOK4TNE106T



1) **Piston & Ring Kit**
- Y123901-22080 Std.
- Y123901-22900 0.25

Use 4

2) **Ring Set**
- Y123900-22050 Std.
- Y123900-22950 0.25

Main Bearing
- Y723900-02800 Std.
- Y123900-02340 0.25

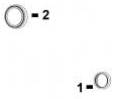
Set of 5 Pairs

Con Rod Bearing
- Y123900-23600 Std.
- Y123900-23610 0.25

Set of 4 Pairs

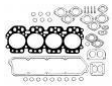
Thrust Washers
- Y123900-02930

Set of 4



1) **Front Seal**
- Y123900-01780

2) **Rear Seal**
- Y123672-01782



1) **O/H Gasket Set**
- Y723900-92630

2) **Head Gasket**
- Y123900-01340

3) **Rocker Cover Gasket**
- Y123900-11310

4) **Turbo Mounting Gasket**
- Y123901-18090

5) **Turbo Exhaust Gasket**
- Y123901-18080

1) **Bush, Con Rod**
- Y123900-23910 x4

2) **Bolt, Con Rod**
- Y123900-23200 x8

3) **Bushing, Cam**
- Y123900-02410 x1

4) **Connecting Rod**
- Y123900-23000

5) **Bolt, Cylinder Head**
- Y119174-01200

Valve, Intake
- Y123900-11100 x4

Valve, Exhaust
- Y123900-11110 x4

Guide, Valve
- Y119000-11810 x8

1) **Lock, Valve**
- Y27310-090000 x16

2) **Stem, Seal Int**
- Y121850-11150 x8

Spring, Valve
- Y123900-11120 x8

Thermostat
- Y124610-48620

Oil Pump
- Y123900-32001

Water Pump
- Y123900-42000
- Y123900-42101

Repair Sleeve
- 106RS

Engine Model:
3TNV70

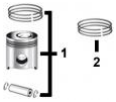
Engine Data:
Indirect Injection Non-Turbo

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 2.755 in / 70.00 mm
Stroke: 2.913 in / 74.00 mm

Please see page **615** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNV70
- YOK3TNV70/25 1
- SPEC SHEET - YOK3TNV70



1) **Piston & Ring Kit**
- Y119515-22080 Std.
- Y119515-22900 0.25 1

Use 3

2) **Ring Set**
- Y119515-22500 Std.
- Y119515-22550 0.25 1

Main Bearing
- Y719717-02901 Std.
- Y719717-02911 0.25

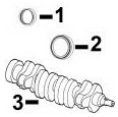
Sold as set

Con Rod Bearing
- Y119515-23601 Std.
- Y119515-23611 0.25

Sold as set

Thrust Washers
- Y119717-02930 std.

Set of 4



1) **Front Seal**
- Y119717-01800

2) **Rear Seal**
- Y124085-02220

3) **Crankshaft**
- Y119515-21700 2

1) **O/H Gasket Set**
- Y719515-92620

2) **Head Gasket**
- Y119515-01330

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y119515-11310

1) **Bush, Con Rod**
- Y119717-23911 x3

2) **Bolt, Con Rod**
- Y119717-23200 x6

3) **Bushing, Cam**
- Y119717-02411 x1

4) **Connecting Rod**
- Y119515-23000 x3

5) **Bolt, Head**
- Y119515-01200 x14

1) **Tappet**
- Y119620-14200 x6

2) **Camshaft**
- Y119515-14581 2

3) **Push Rod**
- Y119515-14400 x6

Valve, Intake
- Y119515-11101 x3

Valve, Exhaust
- Y119515-11110 x3

Guide, Valve

1) **Stem, Seal Intake**
- Y119717-11340 x3

2) **Stem, Seal Exhaust**
- Y119717-11350 x3

1) **Spring, Valve**
- Y119717-11131 x6

2) **Cap, Valve**
- Y105010-11490 x6

3) **Lock, Valve**
- Y119717-11190 x12

1) **Thermostat**
- Y119717-49800

2) **Injector**
- Y119515-53001 3

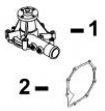
1) **Oil Pump**
- Y119717-32120SET

2) **Solenoid, Fuel Stop**
- Y119653-77950 3

1) **Electric Fuel Lift Pump**
- Y119225-52102 3
- Y129612-52100 3

2) **Mechanical Fuel Lift Pump**
- Y129100-52101 3
- Y129158-52101 3

3) **Glow Plug**
- Y119717-77800



Water Pump
- 1) Y119540-42000

2) **Water Pump Gasket**
- Y119515-42020

Repair Sleeve
- 70RS x3

(1): In Development
(2): Gear not included.
(3): Check your application for proper usage.

Engine Model:
3TNV76

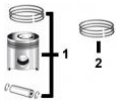
Engine Data:
Indirect Injection
Non-Turbo

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 2.992 in / 76.00 mm Stroke: 3.228 in / 82.00 mm

Please see page **616** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNV76
- YOK3TNV76/25 1
- SPEC SHEET - YOK3TNV76



1) **Piston & Ring Kit**
- Y119717-22080 Std.
- Y119717-22090 0.25 1

Use 3

2) **Ring Set**
- Y119717-22500 Std.
- Y119717-22550 0.25 1

Main Bearing
- Y719717-02901 Std.
- Y719717-02911 0.25

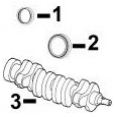
Sold as set

Con Rod Bearing
- Y119717-23601 Std.
- Y119717-23611 0.25

Sold as set

Thrust Washers
- Y119717-02930 std.

Set of 4



1) **Front Seal**
- Y119717-01800

2) **Rear Seal**
- Y124085-02220

3) **Crankshaft**
- Y119717-21700 2

1) **O/H Gasket Set**
- Y719717-92850

2) **Head Gasket**
- Y119717-01330

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y119717-32080

1) **Bush, Con Rod**
- Y119717-23911 x3

2) **Bolt, Con Rod**
- Y119717-23200 x6

3) **Bushing, Cam**
- Y119717-02411 x1

4) **Connecting Rod**
- Y119717-23000 x3

5) **Bolt, Head**
- Y119810-01200 x14

1) **Tappet**
- Y119620-14200 x6

2) **Camshaft**
- Y119717-14581 2

3) **Push Rod**
- Y119717-14400 x6

Valve, Intake
- Y119717-11101 x3

Valve, Exhaust
- Y119717-11110 x3

Guide, Valve

1) **Stem, Seal Intake**
- Y119717-11340 x3

2) **Stem, Seal Exhaust**
- Y119717-11350 x3

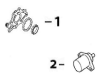
1) **Spring, Valve**
- Y119717-11131 x6

2) **Cap, Valve**
- Y105010-11490 x6

3) **Lock, Valve**
- Y119717-11190 x12

1) **Thermostat**
- Y119717-49800

2) **Injector**
- Y119717-53001 3



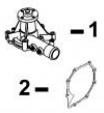
1) **Oil Pump**
- Y119717-32120SET

2) **Solenoid, Fuel Stop**
- Y119653-77950 3

1) **Electric Fuel Lift pump**
- Y119225-52102 3

2) **Mechanical Fuel Lift pump**
- Y129100-52101 3

3) **Glow Plug**
- Y119717-77800



Water Pump
- 1) Y119717-42002

2) **Water Pump Gasket**
- Y119717-42020

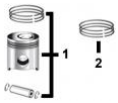
Repair Sleeve
- 76RS x3

(1): In Development
(2): Gear not included.
(3): Check your application for proper usage.

Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
3TNV82A	Direct Injection Non-Turbo	3 Cyl	Bore: 3.22 in / 82.00 mm Stroke: 3.30 in / 84.00 mm

Please see page **617** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNV82A
- YOK3TNV82A/25
- SPEC SHEET - YOK3TNV82A



1) **Piston & Ring Kit**
- Y119802-22080 Std.
- Y119802-22900 0.25

Use 3

2) **Ring Set**
- Y119802-22500 Std.
- Y119802-22950 0.25

Main Bearing
- Y119810-02800 Std.
- Y119810-02870 0.25

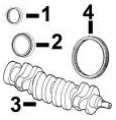
Use 1 Sold by SET

Con Rod Bearing
- Y119810-23600 Std.
- Y119810-23610 0.25

Use 1 Sold by Set

Thrust Washers
- Y119717-02930

Use 1 Sold as Set



1) **Front Seal**
- Y129795-01800 55x72x9mm 1

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y119802-21002 2

4) **Flywheel Ring Gear**
- Y119865-21600 1

1) **O/H Gasket Set**
- Y719823-92780

2) **Head Gasket**
- Y119812-01330

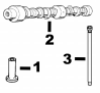
3) **Liquid Gasket**
- Y977770-1207F

1) **Bushing, Con Rod**
- Y119810-23910 x3

2) **Bolt, Con Rod**
- Y119810-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

5) **Bolt, Cylinder Head**
- Y119810-01200



1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y119802-14580 3

3) **Push Rod**
- Y119810-14400 x6

Valve, Intake
- Y119802-11100 x3

Valve, Exhaust
- Y119802-11110 x3

Guide, Valve Intake
- Y124060-11800 x3

Guide, Valve Exhaust
- Y119802-11810 x3

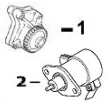
Stem, Seal Intake
- Y124160-11340 x3

Stem, Seal Exhaust
- Y124950-11340 x3

Spring, Valve
- 119810-11120 x6

Lock, Valve
- Y127310-070001 x12

1) **Thermostat**
- Y129155-49801



1) **Oil Pump**
- Y119802-32100SET 1

2) **Solenoid, Fuel Stop**
- Y119233-77932 1

Lift Pump
- Y129100-52101-Z

1) **Water Pump**
- Y119802-42000 1

2) **Water Pump Gasket**
- Y129486-42050

Repair Sleeve
- 82RS

(1): Check your application for proper usage.

(2): Gear not included.

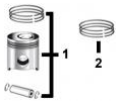
Engine Model: 3TNV84

Engine Info: 3 Cyl

Engine Dimensions: Bore: 3.30 in / 84.00 mm

Please see page **618** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNV84
- YOK3TNV84/25
- SPEC SHEET - YOK3TNV84



1) **Piston & Ring Kit**
- Y129004-22080 Std.
- Y129004-22900 0.25

Use 3

2) **Ring Set**
- Y129004-22500 Std.
- Y129004-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

Use 4 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 3 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4

1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129001-21100 1

4) **Flywheel Ring Gear**
- Y124550-21600 127T 2

1) **O/H Gasket Set**
- YMGS3TNE84 4

2) **Head Gasket**
- Y129002-01331 5

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129004-11310

1) **Bush, Con Rod**
- Y129100-23910 x3

2) **Bolt, Con Rod**
- Y121550-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200

1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y129129-14580 1

3) **Push Rod**
- Y129150-14400 x6

Valve, Intake
- Y129004-11130 x3

Valve, Exhaust
- Y129100-11130 x3

Guide, Valve

1) **Intake**
- Y120130-11860 x3

2) **Exhaust**
- Y129150-11810 x3

1) **Stem, Seal Int**
- Y124460-11340 x3

2) **Stem, Seal Exh**
- Y121400-11340 x3

1) **Spring, Valve**
- Y129795-11120 x6

2) **Cap, Valve**
- Y129150-11370

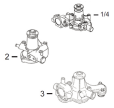
1) **Thermostat**
- Y129155-49801

2) **Injector**
- Y729004-53101 2

1) **Oil Pump**
- Y129001-32001 2
- Y119802-32100SET 2

2) **Oil Cooler**
- Y129508-33030 2

Electric Fuel Pump
- Y119225-52102
- Y129612-52100



Water Pump
- 1) Y129001-42004 2
- 2) Y129100-42004 2
- 3) Y129263-42000 2
- 4) Y129508-42001 3

Repair Sleeve
- 84RS

(1): Gear not included.
(2): Check your application for proper usage.
(3): Like Y129001-42004, with Inject Pump cooling connections.
(4): Includes MLS Head Hasket Y129002-01331 – 2 Notches
(5): MLS – 2 Notches

Engine Model:
4TNV84

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.30 in / 84.00 mm

Yanmar Engine Models
4TNV84-DMW
4TNV84-GGE
4TNV84-KLAN
4TNV84-KVA
4TNV84-KWA
4TNV84-LU2

Hi-Power Genset Model
HYW-25
M6

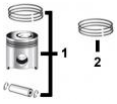
New Holland
T3020 - Tractor

Landini
MISTRAL 45 - 2-045 - Tractor

Marine Pleasure
4JH3 (*)

Mustang
2044 - Loader

Engine O/H Kit
- YOK4TNV84
- YOK4TNV84/25
- SPEC SHEET - YOK4TNV84



1) Piston & Ring Kit
- Y129004-22080 Std.
- Y129004-22900 0.25

Use 4

2) Ring Set
- Y129004-22500 Std.
- Y129004-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

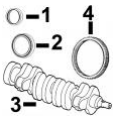
Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4

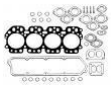


1) Front Seal
- Y129795-01800

2) Rear Seal
- Y129795-01780

3) Crankshaft
- Y129407-21000 1

4) Flywheel Ring Gear
- Y124550-21600 127T 3



1) O/H Gasket Set
- YMGS4TNE84

2) Head Gasket
- Y129408-01330

3) Liquid Gasket
- Y977770-1207F

4) Rocker Cover Gsk
- Y129601-11310

1) Bush, Con Rod
- Y129100-23910 x4

2) Bolt, Con Rod
- Y121550-23200 x8

3) Bushing, Cam
- Y129795-02412 x1

4) Connecting Rod
- Y729402-23100

5) Bolt, Cylinder Head
- Y129150-01200

1) Tappet
- Y129150-14200 x8

2) Camshaft
- Y729402-14580

3) Push Rod
- Y129150-14400

Valve, Intake
- Y129004-11130 x4

Valve, Exhaust
- Y129100-11130 x4

Guide, Valve

1) Intake
- Y120130-11860 x4

2) Exhaust
- Y129150-11810 x4

1) Stem, Seal Int
- Y124460-11340 x4

2) Stem, Seal Exh
- Y121400-11340 x4

1) Spring, Valve
- Y129795-11120 x8

2) Cap, Valve
- Y129150-11370

1) Thermostat
- Y129155-49801

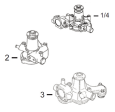
2) Injector
- Y729004-53101 3

1) Oil Pump
- Y129001-32001 3
- Y119802-32100SET 3

2) Oil Cooler
- Y129508-33030 3

3) Solenoid, Fuel Stop
- Y119653-77950 3

Electric Fuel Pump
- Y119225-52102
- Y129612-52100



Water Pump
- 1) Y129001-42004 3
- 2) Y129100-42004 3
- 3) Y129263-42000 3
- 4) Y129508-42001 2

Repair Sleeve
- 84RS

(1): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.
(2): Like Y129001-42004, with Inject Pump cooling connections.
(3): Check application for proper usage.

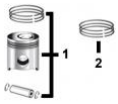
Engine Model: 4TNV84T

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.30 in / 84.00 mm

Please see page **619** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV84T
- YOK4TNV84T/25
- SPEC SHEET - YOK4TNV84T



1) **Piston & Ring Kit**
- Y129508-22080 Std.
- Y129508-22900 0.25

Use 4

2) **Ring Set**
- Y129004-22500 Std.
- Y129004-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

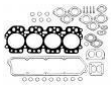
Set of 4

1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129407-21000 1

4) **Flywheel Ring Gear**
- Y124550-21600 127T 3



1) **O/H Gasket Set**
- YMGS4TNV84T

2) **Head Gasket**
- Y129508-01330

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129508-11310

5) **Intake Manifold Gasket**
- Y129508-12110

1) **Bush, Con Rod**
- Y129100-23910 x4

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200

1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y729402-14580

3) **Push Rod**
- Y129150-14400 x8

Valve, Intake
- Y129508-11100 x8

Valve, Exhaust
- Y129508-11110 x8

Guide, Valve
- Y119717-11800 x16

1) **Stem, Seal Int**
- Y119717-11340 x8

2) **Stem, Seal Exh**
- Y119717-11350 x8

1) **Spring, Valve**
- Y129508-11130 x16

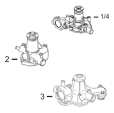
2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y129155-49801

1) **Oil Pump**
- Y129001-32001 3
- Y119802-32100SET 3

2) **Oil Cooler**
- Y129508-33030 3

Electric Fuel Pump
- Y119225-52102
- Y129612-52100



Water Pump
- 1) Y129001-42004 3
- 2) Y129100-42004 3
- 3) Y129263-42000 3
- 4) Y129508-42001 2

Repair Sleeve
- 84RS

(1): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.
(2): Like Y129001-42004, with Inject Pump cooling connections.
(3): Check application for proper usage.

Engine Model:
TK486V

Engine Desc:
Thermo King

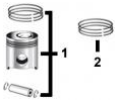
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.38 in / 86.00 mm Stroke: 3.54 in / 90.00 mm

Thermo King

SB-130
SB-210+
SB-310+
SB-400
SB-200TG
SB-230
SB-330

Engine O/H Kit
- YOKTK486V
- YOKTK486V/25
- YOKTK486V/50
- SPEC SHEET - YOKTK486V



1) **Piston & Ring Kit**
- Y13-1064 Std.
- Y13-1065 0.25
- Y13-1066 0.50

Use 4

2) **Ring Set**
- Y13-355 Std.
- Y13-461 0.25
- Y13-455 0.50

Main Bearing
- Y129001-02931 Std.
- (13-920)
- Y129150-02871 0.25
- (13-921)

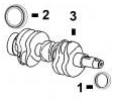
Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- (13-924)
- Y129150-23611 0.25
- (13-925)

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931
- (13-927)

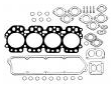
Set of 4



1) **Front Seal**
- Y129795-01800
- (33-4088)

2) **Rear Seal**
- Y33-2974
- (33-2974)

3) **Crankshaft**
- Y129407-21000 1
- (13-351)

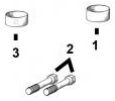


1) **O/H Gasket Set**
- YMGS486V 2

2) **Head Gasket**
- Y33-5056

3) **Liquid Gasket**
- Y977770-1207F

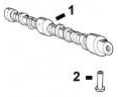
4) **Rocker Cover Gsk**
- Y129160-11310
- (13-340)



1) **Bush, Con Rod**
- Y129100-23910 x4
- (11-8953)

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1
- (13-926)



1) **Tappet**
- Y129150-14200 x8
- (11-6717)

2) **Camshaft**
- Y729402-14580
- (11-9261)

Valve, Intake
- Y129004-11130 x4
- (13-932)

Valve, Exhaust
- Y129100-11130 x4
- (13-659)

Guide, Valve

1) **Intake**
- Y120130-11860 x4
- (11-8928)

2) **Exhaust**
- Y129150-11810 x4
- (11-8929)

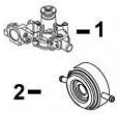
1) **Stem, Seal Int**
- Y124460-11340 x4

2) **Stem, Seal Exh**
- Y121400-11340 x4
- (11-8934)

Spring, Valve
- Y129795-11120 x8
- (11-8932)

1) **Thermostat**
- Y129155-49801
- (13-385)

2) **Injector**
- Y729004-53101
- (13-370)



1) **Water Pump**
- Y13-509

2) **Oil Cooler**
- Y129508-33030

Repair Sleeve
- 86RS

(1): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.
(3): With Cooling Pipes/Nipples.

(2): O/H Gasket does not include Rear Seal Y33-2974. Please order separately.

YANMAR 4TNV86CT, TURBO, COMMON RAIL INJECTION

Engine Model:
4TNV86CT

Engine Desc:
TURBOCHARGE

Engine Data:
TIER 4 FINAL

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 86.00 mm / 3.386 in
Stroke: 90.00mm / 3.543 in
Displacement: 2090 cc (127.5 in3)

Yanmar Engine Models

4TNV86CT-KKTF
4TNV86CT-YOSAN
4TNV86CT-MJT
4TNV86CT-KJFM
4TNV86CHT-MJT
4TNV86CT-PTB
4TNV86CT-PTB1
4TNV86CT-DTR
4TNV86CT-PBV
4TNV86CT-DSS1

John Deere

312GR - Skid Steer
314G - Skid Steer
4052R - Compact Utility Tractor
4066R - Compact Utility Tractor
8000S - Fairway Mower

TAKEUCHI

TB260 - Excavator

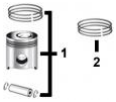
TORO

4500 Ground Master - Mower

Yanmar

VIO55-5CR - Excavator

Engine O/H Kit
- YOK4TNV86CT
- YOK4TNV86CT/25



1) **Piston & Ring Kit**
- Y129A01-22080 Std.
- Y129A01-22900 0.25

Use 4

2) **Ring Set**
- Y129A01-22500 Std.
- Y129A01-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

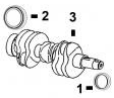
Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4

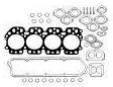


1) **Front Seal**
- Y119934-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129558-21000

4) **Ring Gear**
- Y124550-21600



1) **O/H Gasket Set**
- TMIA883065

2) **Head Gasket**
- Y129C01-01331

3) **Rocker Cover Gasket**
- Y129C00-11310

4) **Intake Manifold Gasket**
- Y129C00-12110

5) **Exhaust Manifold Gasket**
- Y129C00-13110

6) **Liquid Gasket**
- Y977770-1207F

1) **Bush, Con Rod**
- Y129100-23910 x4

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Cylinder Head Bolt**
- Y129150-01200 x18

5) **Connecting Rod**
- Y729402-23100 x4

1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129C00-14580

3) **Push Rod**
- Y129150-14400 x8

Valve, Intake
- Y129005-11100 x4

Valve, Exhaust
- Y129100-11130 x4

Guide, Valve Intake
- Y120130-11860 x4

Guide, Valve Exhaust
- Y129150-11810 x4

Stem, Seal Intake
- Y124460-11340 x4

Stem, Seal Exhaust
- Y129A00-11340 x4

Spring, Valve
- Y129795-11120 x8

Cap, Valve
- Y129150-11370 x8

Lock, Valve
- Y27310-080001 x16

Thermostat
- Y129155-49801

1) **Oil Pump**
- Y129A01-32000

2) **Oil Cooler**
- Y129508-33010

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129A01-42000 1

Repair Sleeve
- 86RS x4

Glow Plug
- Y129008-77800

(1): Check your application for proper usage.

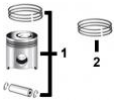
Engine Model:
3TNV88

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.46 in / 88.00 mm

Please see page **620** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNV88
- YOK3TNV88/25
- SPEC SHEET - YOK3TNV88



1) **Piston & Ring Kit**
- Y129005-22080 Std.
- Y129005-22900 0.25

Use 3

2) **Ring Set**
- Y129005-22500 Std.
- Y129005-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

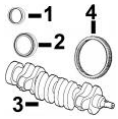
Use 4 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 3 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4



1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129001-21100 1

4) **Flywheel Ring Gear**
- Y124550-21600 127T 2

1) **O/H Gasket Set**
- YMGS3TNE88 4

2) **Head Gasket**
- Y129001-01340

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129004-11310

1) **Bush, Con Rod**
- Y129100-23910 x3

2) **Bolt, Con Rod**
- Y121550-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200 x14

1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y129129-14580 1

3) **Push Rod**
- Y129150-14400 x6

Valve, Intake
- Y129005-11100 x3 5
- Y129004-11130 x3 6

Valve, Exhaust
- Y129100-11130 x3

Guide, Valve

1) Intake
- Y120130-11860 x3

2) Exhaust
- Y129150-11810 x3

1) Stem, Seal Int
- Y124460-11340 x3

2) Stem, Seal Exh
- Y121400-11340 x3

1) Spring, Valve
- Y129795-11120 x6

2) Cap, Valve
- Y129150-11370

1) **Thermostat**
- Y129155-49801

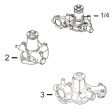
2) **Injector**
- Y729004-53101 2

1) **Oil Pump**
- Y129001-32001 2
- Y119802-32100SET 2

2) **Oil Cooler**
- Y129508-33030 2

3) **Solenoid, Fuel Stop**
- Y119653-77950 2

Electric Fuel Pump
- Y119225-52102
- Y129612-52100



Water Pump
- 1) Y129001-42004 2
- 2) Y129100-42004 2
- 3) Y129263-42000 2
- 4) Y129508-42001 3

Repair Sleeve
- 88RS

Glow Plug
- Y129008-77800

(1): Gear not included.

(2): Check your application for proper usage.

(3): Like Y129001-42004, with Inject Pump cooling connections.

(4): The intake manifold and EGR gaskets for 3TNV88F series engines are not included in this gasket set and must be purchased from an OE Yanmar dealer.

(5): Head Diameter 1.494”

(6): Head Diameter 1.414”

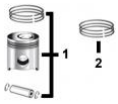
Engine Model: 4TNV88

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.46 in / 88.00 mm

Please see page **621** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV88
- YOK4TNV88/25
- Spec Sheet - YOK4TNV88



1) **Piston & Ring Kit**
- Y129005-22080 Std.
- Y129005-22900 0.25

Use 4

2) **Ring Set**
- Y129005-22500 Std.
- Y129005-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

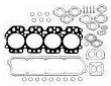
Set of 4

1) **Front Seal**
- Y129795-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129407-21000 1

4) **Flywheel Ring Gear**
- Y124550-21600 127T 3



1) **O/H Gasket Set**
- YMGS4TNE88

2) **Head Gasket**
- Y129407-01340

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129601-11310

1) **Bush, Con Rod**
- Y129100-23910 x4

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Connecting Rod**
- Y729402-23100

5) **Bolt, Cylinder Head**
- Y129150-01200

1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y729402-14580

3) **Push Rod**
- Y129150-14400 x8

Valve, Intake
- Y129005-11100 x4 With a 1.496 head diameter.
- Y129004-11130 x4 With a 1.417 head diameter.

Valve, Exhaust
- Y129100-11130 x4

Guide, Valve

1) **Intake**
- Y120130-11860 x4

2) **Exhaust**
- Y129150-11810 x4

1) **Stem, Seal Int**
- Y124460-11340 x4

2) **Stem, Seal Exh**
- Y121400-11340 x4

1) **Spring, Valve**
- Y129795-11120 x8

2) **Cap, Valve**
- Y129150-11370

1) **Thermostat**
- Y129155-49801

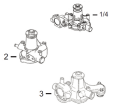
2) **Injector**
- Y729004-53101 3

1) **Oil Pump**
- Y129001-32001 3
- Y119802-32100SET 3

2) **Oil Cooler**
- Y129508-33030 3

3) **Solenoid, Fuel Stop**
- Y119653-77950 3

Electric Fuel Pump
- Y119225-52102
- Y129612-52100



Water Pump
- 1) Y129001-42004 3
- 2) Y129100-42004 3
- 3) Y129263-42000 3
- 4) Y129508-42001 2

Repair Sleeve
- 88RS

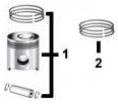
Glow Plug
- Y129008-77800

(1): Gear not included. Suitable for 4TNE84/88 and 4TNV84/88. Do not use in applications that require a crankshaft driven balancer unit.
(2): Like Y129001-42004, with Inject Pump cooling connections.
(3): Check application for proper usage.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3TNV88C	NATURALLY ASPIRATED	TIER 4 FINAL	3 Cyl	Bore: 88.00 mm / 3.46 in Stroke: 90.00mm / 3.543 in Displacement: 1642 cc (100.2 in3)

Please see page **622** for a complete list of equipment models.

Engine O/H Kit
- YOK3TNV88C
- YOK3TNV88C/25



1) **Piston & Ring Kit**
- Y129C00-22080 Std.
- Y129C00-22900 0.25

Use 3

2) **Ring Set**
- Y129A00-22500 Std.
- Y129A00-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

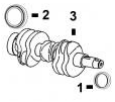
Use 4 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 3 Sold by Pairs

Thrust Washers
- Y129150-02931

Set of 4



1) **Front Seal**
- Y119934-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129001-21100

1) **O/H Gasket Set**
- Y129A24-92600

2) **Head Gasket**
- Y129A00-01331

3) **Rocker Cover Gasket**
- Y129A00-11310

4) **Intake Manifold Gasket**
- Y129A00-12110

5) **Exhaust Manifold Gasket**
- Y129A00-13110

6) **Liquid Gasket**
- Y977770-1207F

1) **Bush, Con Rod**
- Y129100-23910 x3

2) **Bolt, Con Rod**
- Y121550-23200 x6

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Cylinder head bolts**
- Y129150-01200

5) **Connecting rod**
- Y729402-23100

1) **Tappet**
- Y129150-14200 x6

2) **Camshaft**
- Y129A00-14580

3) **Push Rod**
- Y129150-14400 x6

Valve, Intake
- Y129005-11100 x3

Valve, Exhaust
- Y129100-11130 x3

Guide, Intake Valve
- Y120130-11860 x3

Guide, Exhaust Valve
- Y129150-11810 x3

Stem, Seal Intake
- Y124460-11340 x3

Stem, Seal Exhaust
- Y129A00-11340 x3

Lock, Valve
- Y27310-080001 x12

Spring, Valve
- Y129795-11120 x6

Cap, Valve
- Y129150-11370 x6

Thermostat
- Y129155-49801

1) **Oil Pump**
- Y129A00-32000

2) **Oil Cooler**
- Y129508-33030

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129A01-42000 1

Repair Sleeve
- 88RS

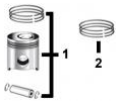
Glow Plug
- Y129008-77800

(1): Check your application for proper usage.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
4TNV88C	NATURALLY ASPIRATED	TIER 4 FINAL	4 Cyl	Bore: 88.00 mm / 3.46 in Stroke: 90.00mm / 3.543 in Displacement: 2190 cc (133.6 in3)

Please see page **623** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV88C
- YOK4TNV88C/25



1) **Piston & Ring Kit**
- Y129C00-22080 Std.
- Y129C00-22900 0.25

Use 4

2) **Ring Set**
- Y129A00-22500 Std.
- Y129A00-22950 0.25

Main Bearing
- Y129001-02931 Std.
- Y129150-02871 0.25

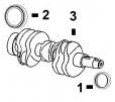
Use 5 Sold by Pairs

Con Rod Bearing
- Y129150-23601 Std.
- Y129150-23611 0.25

Use 4 Sold by Pairs

Thrust Washers
- Y129150-02931

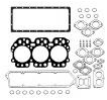
Set of 4



1) **Front Seal**
- Y119934-01800

2) **Rear Seal**
- Y129795-01780

3) **Crankshaft**
- Y129407-21000 1



1) **O/H Gasket Set**
- Y129C20-92600

2) **Head Gasket**
- Y129685-01350

3) **Rocker Cover Gasket**
- Y129C00-11310

4) **Intake Manifold Gasket**
- Y129C00-12110

5) **Exhaust Manifold Gasket**
- Y129C00-13110

6) **Liquid Gasket**
- Y977770-1207F

1) **Bush, Con Rod**
- Y129100-23910 x4

2) **Bolt, Con Rod**
- Y121550-23200 x8

3) **Bushing, Cam**
- Y129795-02412 x1

4) **Cylinder head bolts**
- Y129150-01200

5) **Connecting rod**
- Y729402-23100

1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129C00-14580

3) **Push Rod**
- Y129150-14400 x8

Valve, Intake
- Y129005-11100 x4

Valve, Exhaust
- Y129100-11130 x4

Guide, Intake Valve
- Y120130-11860 x4

Guide, Exhaust Valve
- Y129150-11810 x4

Stem, Seal Intake
- Y124460-11340 x4

Stem, Seal Exhaust
- Y129A00-11340 x4

Spring, Valve
- Y129795-11120 x8

Cap, Valve
- Y129150-11370 x8

Lock, Valve
- Y27310-080001 x16

Thermostat
- Y129155-49801

1) **Oil Pump**
- Y129C00-32000

2) **Oil Cooler**
- Y129508-33030 2

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129A01-42000 1

Repair Sleeve
- 88RS

Glow Plug
- Y129008-77800

(1): Check your application for proper usage.

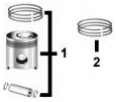
Engine Model:
4TNV94L

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.70 in / 94.00 mm
Stroke: 4.331 in / 110 mm

Please see page **624** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV94
- YOK4TNV94/25
- SPEC SHEET - YOK4TNV94



1) **Piston & Ring Kit**
- Y129906-22080 Std.
- Y729906-22900 0.25

Use 4

2) **Ring Set**
- Y129906-22050 Std.
- Y729906-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

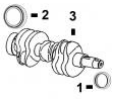
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

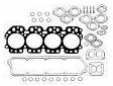
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129902-21000



1) **O/H Gasket Set**
- YMGS4TNV94/98

2) **Head Gasket**
- Y129907-01331 1

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129907-11310

5) **Silencer Gasket**
- Y129930-13201

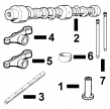
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129908-14581

3) **Rocker Arm Shaft**
- Y129907-11250

4) **Rocker Arm Intake**
- Y129907-11650

5) **Rocker Arm Exhaust**
- Y129907-11660

6) **Protector, Nozzle**
- Y119802-11870

7) **Push Rod**
- Y129907-14400 x8 3

Valve, Intake
- Y129907-11100 x8

Valve, Exhaust
- Y129907-11110 x8

Guide, Valve
- Y129907-11800 x16

1) **Lock, Valve**
- Y27310-070001 x32

2) **Stem, Seal Int**
- Y124160-11340 x8

3) **Stem, Seal Exh**
- Y124950-11340 x8

1) **Spring, Valve**
- Y129907-11120 x16

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811 3
- Y121850-49801 3

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y119225-52102
- Y129612-52100

Water Pump
- Y129907-42000 3
- Y129907-42051 2

Water Pump Gasket
- Y129900-42020

Repair Sleeve
- 94RS

(1): On engines using piston kit Y129906-22080, use Maxiforce Head Gasket Y129907-01331 (replaces head gasket # 129906-01340). Engines using piston kit 129906-22090 (no longer offered by Yanmar) can use Maxiforce head gasket Y129907-01331 or 129906-01350 head gasket (supplied by OE Yanmar only) .

(2): Forklift Applications.

(3): Check your application for proper usage.

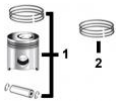
Engine Model: 4TNV98

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **625** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV98D
- YOK4TNV98D/25
- SPEC SHEET - YOK4TNV98D



1) **Piston & Ring Kit**
- Y129927-22080 Std.
- Y729927-22900 0.25

Use 4

2) **Ring Set**
- Y129927-22050 Std.
- Y729927-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

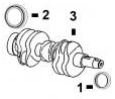
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

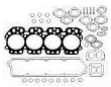
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129902-21000



1) **O/H Gasket Set**
- YMGS4TNV94/98

2) **Head Gasket**
- Y129907-01331

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129907-11310

5) **Silencer Gasket**
- Y129930-13201

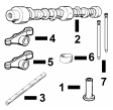
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129908-14581

3) **Rocker Arm Shaft**
- Y129907-11250

4) **Rocker Arm Intake**
- Y129907-11650

5) **Rocker Arm Exhaust**
- Y129907-11660

6) **Protector, Nozzle**
- Y119802-11870

7) **Push Rod**
- Y129907-14400 x8 [1]

Valve, Intake
- Y129907-11100 x8

Valve, Exhaust
- Y129907-11110 x8

Guide, Valve
- Y129907-11800 x16

1) **Lock, Valve**
- Y27310-070001 x32

2) **Stem, Seal Int**
- Y124160-11340 x8

3) **Stem, Seal Exh**
- Y124950-11340 x8

1) **Spring, Valve**
- Y129907-11120 x16

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811
- Y121850-49801

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y119225-52102
- Y129612-52100

Water Pump
- Y129907-42000 [1]

Water Pump Gasket
- Y129900-42020

Repair Sleeve
- 98RS

(1): Check application for proper usage.

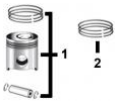
Engine Model: 4TNV98

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **626** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV98D2
- YOK4TNV98D2/25
- SPEC SHEET - YOK4TNV98D2



1) **Piston & Ring Kit**
- Y129907-22090 Std.
- Y729907-22910 0.25

Use 4

2) **Ring Set**
- Y129907-22050 Std.
- Y729907-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

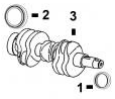
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

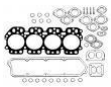
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129902-21000



1) **O/H Gasket Set**
- YMGS4TNV94/98

2) **Head Gasket**
- Y129907-01331

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129907-11310

5) **Silencer Gasket**
- Y129930-13201

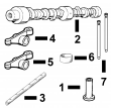
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129908-14581

3) **Rocker Arm Shaft**
- Y129907-11250

4) **Rocker Arm Intake**
- Y129907-11650

5) **Rocker Arm Exhaust**
- Y129907-11660

6) **Protector, Nozzle**
- Y119802-11870

7) **Push Rod**
- Y129907-14400 x8 [1]

Valve, Intake
- Y129907-11100 x8

Valve, Exhaust
- Y129907-11110 x8

Guide, Valve
- Y129907-11800 x16

1) **Lock, Valve**
- Y27310-070001 x32

2) **Stem, Seal Int**
- Y124160-11340 x8

3) **Stem, Seal Exh**
- Y124950-11340 x8

1) **Spring, Valve**
- Y129907-11120 x16

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811
- Y121850-49801

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y119225-52102
- Y129612-52100

Water Pump
- Y129907-42000 [1]

Water Pump Gasket
- Y129900-42020

Repair Sleeve
- 98RS

(1): Check application for proper usage.

Engine Model:
4TNV98C, Tier 4

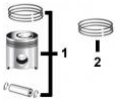
Engine Data:
4Y33D

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **627** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV98C
- YOK4TNV98C/25
- SPEC SHEET - YOK4TNV98C



1) **Piston & Ring Kit**
- Y129E00-22080 Std.
- Y129E00-22900 0.25

Use 4

2) **Ring Set**
- Y129E00-22050 Std.
- Y129E00-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

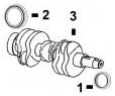
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

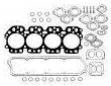
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**



1) **O/H Gasket Set**
- Y129E22-92600

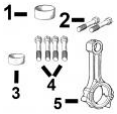
2) **Head Gasket**
- Y129E00-01330

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gasket**
- Y129E00-11310

5) **Intake Manifold Gasket**
- Y129E00-12110

6) **Exhaust Manifold Gasket**
- Y129E00-13110



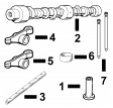
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**

3) **Rocker Arm Shaft**

4) **Rocker Arm Intake**

5) **Rocker Arm Exhaust**

7) **Push Rod**

Valve, Intake
- Y129900-11100

Valve, Exhaust
- Y129900-11110

Guide, Valve
- Y129150-11810

1) **Lock, Valve**
- Y27310-080001

2) **Valve Seal**
- Y129A00-11340

1) **Spring, Valve**
- Y129900-11120

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49801 1
- Y121850-49811

Gasket, Thermostat
- Y121850-49540 1
- Y121850-49550 1

Oil Pump
- Y129900-32001

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129900-42002 1
- Y129932-42100 1
- Y129E30-42100 1
- Y129E00-42100 1

2) **Gasket, Water Pump**
- Y129900-42020

Glow Plug
- Y129008-77800

Repair Sleeve
- 98RS

(1): Check application for proper usage.

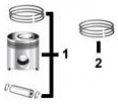
Engine Model: 4TNV98T

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **628** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV98T
- YOK4TNV98T/25
- SPEC SHEET - YOK4TNV98T



1) **Piston & Ring Kit**
- Y129908-22080 Std.
- Y729908-22900 0.25

Use 4

2) **Ring Set**
- Y129907-22050 Std.
- Y729907-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

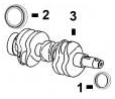
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

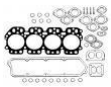
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129908-21000



1) **O/H Gasket Set**
- YMGS4TNV94/98

2) **Head Gasket**
- Y129907-01331

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129907-11310

5) **Turbo Mounting Gasket**
- Y123901-18090

6) **Turbo Exhaust Gasket**
- Y123901-18080

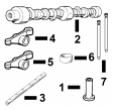
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129908-14581

3) **Rocker Arm Shaft**
- Y129907-11250

4) **Rocker Arm Intake**
- Y129907-11650

5) **Rocker Arm Exhaust**
- Y129907-11660

6) **Protector, Nozzle**
- Y119802-11870

7) **Push Rod**
- Y129907-14400 x8 1

Valve, Intake
- Y129907-11100 x8

Valve, Exhaust
- Y129907-11110 x8

Guide, Valve
- Y129907-11800 x16

1) **Lock, Valve**
- Y27310-070001 x32

2) **Stem, Seal Int**
- Y124160-11340 x8

3) **Stem, Seal Exh**
- Y124950-11340 x8

1) **Spring, Valve**
- Y129907-11120 x16

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811
- Y121850-49801

Oil Pump
- Y129908-32060

Electric Fuel Pump
- Y119225-52102
- Y129612-52100

1) **Water Pump**
- Y129907-42000 1

2) **Water Pump Gasket**
- Y129900-42020

Repair Sleeve
- 98RS

Turbocharger
- Y129935-18010 1

(1): Check application for proper usage.

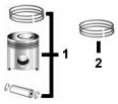
Engine Model: 4TNV98T

Engine Info: 4 Cyl

Engine Dimensions: Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **629** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV98T2
- YOK4TNV98T2/25
- SPEC SHEET - YOK4TNV98T2



1) **Piston & Ring Kit**
- Y129928-22080 Std.
- Y729928-22900 0.25

Use 4

2) **Ring Set**
- Y129927-22050 Std.
- Y729927-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

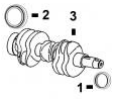
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

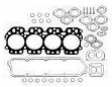
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**
- Y129908-21000



1) **O/H Gasket Set**
- YMGS4TNV94/98

2) **Head Gasket**
- Y129907-01331

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gsk**
- Y129933-11310

5) **Turbo Mounting Gasket**
- Y123901-18090

6) **Turbo Exhaust Gasket**
- Y123901-18080

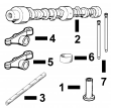
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**
- Y129908-14581

3) **Rocker Arm Shaft**
- Y129907-11250

4) **Rocker Arm Intake**
- Y129907-11650

5) **Rocker Arm Exhaust**
- Y129907-11660

6) **Protector, Nozzle**
- Y119802-11870

7) **Push Rod**
- Y129907-14400 x8 1

Valve, Intake
- Y129907-11100 x8

Valve, Exhaust
- Y129907-11110 x8

Guide, Valve
- Y129907-11800 x16

1) **Lock, Valve**
- Y27310-070001 x32

2) **Stem, Seal Int**
- Y124160-11340 x8

3) **Stem, Seal Exh**
- Y124950-11340 x8

1) **Spring, Valve**
- Y129907-11120 x16

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49811
- Y121850-49801

Oil Pump
- Y129908-32060

Electric Fuel Pump
- Y119225-52102
- Y129612-52100

1) **Water Pump**
- Y129907-42000 1

2) **Water Pump Gasket**
- Y129900-42020

Repair Sleeve
- 98RS

Turbocharger
- Y129935-18010 1

(1): Check application for proper usage.

Engine Model:
4TNV98CT, Tier 4

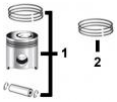
Engine Data:
4Y33T

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.86 in / 98.00 mm Stroke: 4.331 in / 110 mm

Please see page **630** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV98CT
- YOK4TNV98CT/25
- SPEC SHEET - YOK4TNV98CT



1) **Piston & Ring Kit**
- Y129E01-22080 Std.
- Y129E01-22900 0.25

Use 4

2) **Ring Set**
- Y129E00-22050 Std.
- Y129E00-22950 0.25

Main Bearing
- Y729900-02801 Std.
- Y129900-02341 0.25

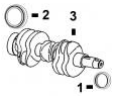
Set of 5 Pairs

Con Rod Bearing
- Y129900-23601 Std.
- Y129900-23611 0.25

Set of 4 Pairs

Thrust Washers
- Y129900-02931 Std.

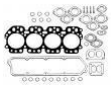
Set of 4



1) **Front Seal**
- Y129916-01800

2) **Rear Seal**
- Y129916-01790

3) **Crankshaft**



1) **O/H Gasket Set**
- Y129E30-92610

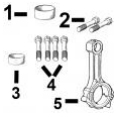
2) **Head Gasket**
- Y129E00-01330

3) **Liquid Gasket**
- Y977770-1207F

4) **Rocker Cover Gasket**
- Y129E00-11310

5) **Intake Manifold Gasket**
- Y129E00-12110

6) **Exhaust Manifold Gasket**
- Y129E00-13110



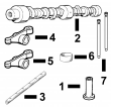
1) **Bush, Con Rod**
- Y129900-23911

2) **Bolt, Con Rod**
- Y129900-23200 x8

3) **Bushing, Cam**
- Y129900-02410

4) **Bolt, Cyl Head**
- Y129900-01200 x18

5) **Connecting Rod**
- Y129900-23001



1) **Tappet**
- Y129150-14200 x8

2) **Camshaft**

3) **Rocker Arm Shaft**

4) **Rocker Arm Intake**

5) **Rocker Arm Exhaust**

7) **Push Rod**

Valve, Intake
- Y129900-11100

Valve, Exhaust
- Y129900-11110

Guide, Valve
- Y129150-11810

1) **Lock, Valve**
- Y27310-080001

Seal, Valve
- Y129A00-11340

1) **Spring, Valve**
- Y129900-11120

2) **Cap, Valve**
- Y129150-11370

Thermostat
- Y121850-49801 1
- Y121850-49811 1

2) **Gasket, Thermostat**
- Y121850-49540 1
- Y121850-49550 1

Oil Pump
- Y129908-32060

Electric Fuel Pump
- Y129612-52100

Water Pump
- Y129900-42002 1
- Y129932-42100 1
- Y129E30-42100 1
- Y129E00-42100 1

2) **Gasket, Water Pump**
- Y129900-42020

Glow Plug
- Y129008-77800

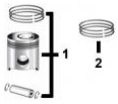
Repair Sleeve
- 98RS

(1): Check application for proper usage.

Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
4TNV106 / 4TNV106T	Tier 1 & Tier 2	4 Cyl	Bore: 4.17 in / 106.00 mm

Please see page **631** for a complete list of equipment models.

Engine O/H Kit
- YOK4TNV106T
- YOK4TNV106T/25
- SPEC SHEET - YOK4TNV106T



1) **Piston & Ring Kit**
- Y123907-22081 Std.
- Y723907-22900 0.25

Use 4

2) **Ring Set**
- Y123907-22050 Std.
- Y723907-22950 0.25

Main Bearing
- Y723900-02800 Std.
- Y123900-02340 0.25

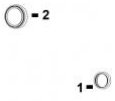
Set of 5 Pairs

Con Rod Bearing
- Y123900-23600 Std.
- Y123900-23610 0.25

Set of 4 Pairs

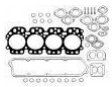
Thrust Washers
- Y123900-02930

Set of 4



1) **Front Seal**
- Y123900-01780

2) **Rear Seal**
- Y123672-01782



1) **O/H Gasket Set**
- Y723907-92680

2) **Head Gasket**
- Y123907-01350

3) **Turbo Mounting Gasket**
- Y123901-18090

4) **Turbo Exhaust Gasket**
- Y123901-18080

1) **Bush, Con Rod**
- Y123900-23910 x4

2) **Bolt, Con Rod**
- Y123900-23200 x8

3) **Bushing, Cam**
- Y123900-02410 x1

4) **Connecting Rod**
- Y123900-23000

5) **Bolt, Cylinder Head**
- Y119174-01200

Valve, Intake
- Y123907-11100 x8

Valve, Exhaust
- Y123907-11110 x8

Guide, Valve

1) **Intake**
- Y123907-11800 x8

2) **Exhaust**
- Y123907-11810 x8

1) **Lock, Valve**
- Y27310-090000 x32

2) **Stem, Seal Int**
- Y124160-11340 x16

Spring, Valve
- Y123907-11120 x16

Thermostat
- Y124610-48620

Oil Pump
- Y123900-32001

Water Pump
- Y123907-42000 1

Turbocharger
- Y123981-18021 2
- Y123945-18010 2

Repair Sleeve
- 106RS

(1): 2 hose barb connections.

(2): Check application for proper usage.

CUMMINS 4B 3.3 PISTON (M): 2170

Engine Series:
B

Engine Model:
B3.3

Engine Data:
Naturally Aspirated, Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
199 Cubic Inch Bore: 3.74 in / 95 mm Stroke: 4.52 in / 115 mm

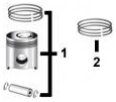
Piston (M):
2170

Komatsu Engines
4D95LE-3

Komatsu Wheel Loaders
WA65-5
WA70-5
WA80-5

1) **Engine O/H Kit**
- COK9967/4 Std
- COK5548/4 0.25 mm 1
- COK5550/4 0.50 mm 1

2) **O/H Kit Fractured Rod**
- COK9967F/4 Std
- COK5548F/4 0.25 mm 1
- COK55550F/4 0.50 mm 1
- SPEC SHEET - 4B 3.3



1) **Piston & Ring Kit**
- C4089967 STD
- C4955548 0.25 mm 1
- C4955550 0.50 mm 1

Use 4

2) **Ring Set**
- CC6205312300 STD
- CC6205382300 0.25 mm 1
- CC6205392300 0.50 mm 1

Main Bearing Set
- C3800872 Std
- CC6204298100 0.25 mm
- CC6204288100 0.50 mm
- CC6204278100 0.75 mm
- CC6204268100 1.00 mm

Priced and sold as a set of 5 pairs. Use 1 set

Con Rod Bearing
- CC6207313300 STD
- CC6207393300 0.25 mm
- CC6207383300 0.50 mm
- CC6207373300 0.75 mm
- CC6207363300 1.00 mm

Fractured Con Rod Bearing
- C4993834 STD
- C4993835 0.25 mm
- C4993836 0.50 mm
- C4993837 0.75 mm
- C4993838 1.00 mm

Priced and sold by pair. Use 4 pairs

Thrust Washer Set
- C4982149 STD
- CC6204298500 0.25 mm
- CC6204288500 0.50 mm
- CC6204278500 0.75 mm
- CC6204268500 1.00 mm

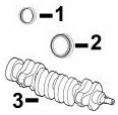
Priced and Sold as a set. Use 1 Set

Piston Kit:

1) 1x CC6204312170 Piston Std, 1x CC6205312300 Ring Set Std,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

2) 1x CC6204392170 Piston 0.25 mm, 1x CC6205382300 Ring Set 0.25 mm,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

3) 1x CC6204382170 Piston 0.50 mm, 1x CC6205392300 Ring Set 0.50 mm,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.



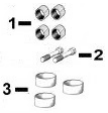
1) **Front Seal**
- CC6204213510

2) **Rear Seal**
- CC6140211341

3) **Crankshaft**

1) **Overhaul Gasket Set**
- C3800939 2

3) **Head Gasket**
- CC6204111830 3
- CC6204111840 3



1) **Bushing, Piston**
- C4944479 x4

2) **Bushing, Camshaft**
- C4994312 x2
- C4994313 x1

3) **Bolt, Con Rod**
- CC6204313310 x8

1) **Tappet**
- C4982154 x8

2) **Push Rod**
- C4944182 x8

Guide, Valve
- C4982846 x8

Spring Valve
- C4982896 x8

Intake, Valve
- C4982907 x4

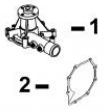
Insert, Intake Valve
- C4982847 x4

Exhaust, Valve
- C4982895 x4 4
- C4982909 x4 7

2) Insert, Exhaust Valve
- C4982908 x4

Seal, Valve Steam
- C4982899 x8

Retainer, Valve
- C4982898 x16

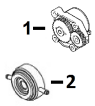


1) **Water Pump**
- C3800883

2) **Water Pump Gasket**
- C4982218

1) **Injector**
- C4089877

2) **Repair Sleeve**
- KM6207-21-2121 5
- 95RS 6



1) **Oil Pump**
- C4941148 Each gear in the pair is 12mm wide
- C4945774 Each gear in the pair is 21mm wide

2) **Oil Cooler**
- C4982639 3

(1): In development

(2): Includes 2 head gaskets CC6204111830 & CC6204111840. Front and Rear Crank seals are sold separately.

(3): Check Application for proper use

(4): Dimensionally similar to C4982909 with out a Stellite Face

(5): Repair Sleeve with flange

(6): Straight Repair Sleeve

(7): Dimensionally similar to C4982895 with a Stellite Face

CUMMINS 4B 3.3 PISTON (M): 2200

Engine Series:
B

Engine Model:
B3.3

Engine Data:
Naturally Aspirated, Tier 1

Engine Info:
4 Cyl

Engine Dimensions:
199 Cubic Inch Bore: 3.74 in / 95 mm Stroke: 4.52 in / 115 mm

Piston (M):
2200

Komatsu Engines
S4D95LE-2
4D95LE-2A
4D95LE-2B
4D95LE-2C
4D95LE-2D

Komatsu Excavator
PC60-7
PC60-7-B
PC70-7
PC70-7-B
PC78US-5
PC75UU-3
PC78US-6
PC78UU-6

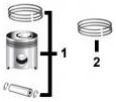
Komatsu Drilling Rig
BA100-1

Komatsu Mobile Crusher
BR100JG-2

Genset
EGS45-5

1) **Engine O/H Kit**
- COK0877/4 Std
- COK9841/4 0.25 mm 1
- COK9842/4 0.50 mm 1

2) **O/H Kit Fractured Rod**
- COK0877F/4 Std
- COK9841F/4 0.25 mm 1
- COK9842F/4 0.50 mm 1
- SPEC SHEET - 4B 3.3



1) **Piston & Ring Kit**
- C3800877 STD
- C4089841 0.25 mm 1
- C4089842 0.50 mm 1

Use 4

2) **Ring Set**
- CC6205312200 STD
- CC6205392200 0.25 mm 1
- CC6205382200 0.50 mm 1

Main Bearing Set
- C3800872 Std
- CC6204298100 0.25 mm
- CC6204288100 0.50 mm
- CC6204278100 0.75 mm
- CC6204268100 1.00 mm

Priced and sold as a set of 5 pairs. Use 1 set

Con Rod Bearing
- CC6207313300 STD
- CC6207393300 0.25 mm
- CC6207383300 0.50 mm
- CC6207373300 0.75 mm
- CC6207363300 1.00 mm

Fractured Con Rod Bearing
- C4993834 STD
- C4993835 0.25 mm
- C4993836 0.50 mm
- C4993837 0.75 mm
- C4993838 1.00 mm

Priced and sold by pair. Use 4 pairs

Thrust Washer Set
- C4982149 STD
- CC6204298500 0.25 mm
- CC6204288500 0.50 mm
- CC6204278500 0.75 mm
- CC6204268500 1.00 mm

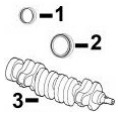
Priced and Sold as a set. Use 1 Set

Piston Kit:

1) 1x C6205312200 Piston Std, 1x CC6205312200 Ring Set Std,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

2) 1x CC6205392200 Piston 0.25 mm, 1x CC6205392200 Ring Set 0.25 mm,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

3) 1x CC6205382200 Piston 0.50 mm, 1x CC6205382200 Ring Set 0.50 mm,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.



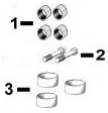
1) **Front Seal**
- CC6204213510

2) **Rear Seal**
- CC6140211341

3) **Crankshaft**

1) **Overhaul Gasket Set**
- C3800939 2

3) **Head Gasket**
- CC6204111830 3
- CC6204111840 3



1) **Bushing, Piston**
- C4944479 x4

2) **Bushing, Camshaft**
- C4994312 x2
- C4994313 x1

3) **Bolt, Con Rod**
- CC6204313310 x8

1) **Tappet**
- C4982154 x8

2) **Push Rod**
- C4944182 x8

Guide, Valve
- C4982846 x8

Spring Valve
- C4982896 x8

Intake, Valve
- C4982907 x4

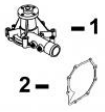
Insert, Intake Valve
- C4982847 x4

Exhaust, Valve
- C4982895 x4 4
- C4982909 x4 7

2) Insert, Exhaust Valve
- C4982908 x4

Seal, Valve Steam
- C4982899 x8

Retainer, Valve
- C4982898 x16

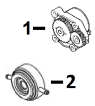


1) **Water Pump**
- C3800883

2) **Water Pump Gasket**
- C4982218

1) **Injector**
- C4089877

2) **Repair Sleeve**
- KM6207-21-2121 5
- 95RS 6



1) **Oil Pump**
- C4941148 Each gear in the pair is 12mm wide
- C4945774 Each gear in the pair is 21mm wide

2) **Oil Cooler**
- C4982639 3

(1): In development

(2): Includes 2 head gaskets CC6204111830 & CC6204111840. Front and Rear Crank seals are sold separately.

(3): Check Application for proper use

(4): Dimensionally similar to C4982909 with out a Stellite Face

(5): Repair Sleeve with flange

(6): Straight Repair Sleeve

(7): Dimensionally similar to C4982895 with a Stellite Face

CUMMINS 4BT 3.3 PISTON (M): 2300

Engine Series:
B

Engine Model:
B3.3

Engine Data:
Turbocharged, Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
199 Cubic Inch Bore: 3.74 in / 95 mm Stroke: 4.52 in / 115 mm

Piston (M):
2300

Komatsu Engines

S4D95LE-3

Komatsu - Wheel Loaders

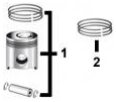
WA80-3
WA80-3-SW
WA80-3-CN
WA80-3-CB
WA80-3-CO
WA90-5
WA100M-3
WA100M-5

Komatsu - Excavator

PC78MR-6
PC78US-6
PC78UU-6
PC88MR-6
PW98MR-6

1) **Engine O/H Kit**
- COK9968/4 Std
- COK5549/4 0.25 mm 1
- COK5551/4 0.50 mm 1

2) **O/H Kit Fractured Rod**
- COK9968F/4 Std
- COK5549F/4 0.25 mm 1
- COK55551F/4 0.50 mm 1
- SPEC SHEET - 4B 3.3



1) **Piston & Ring Kit**
- C4089968 STD
- C4955549 0.25 mm 1
- C4955551 0.50 mm 1

Use 4

2) **Ring Set**
- CC6205312300 STD
- CC6205382300 0.25 mm 1
- CC6205392300 0.50 mm 1

Main Bearing Set
- C3800872 Std
- CC6204298100 0.25 mm
- CC6204288100 0.50 mm
- CC6204278100 0.75 mm
- CC6204268100 1.00 mm

Priced and sold as a set of 5 pairs. Use 1 set

Con Rod Bearing
- CC6207313300 STD
- CC6207393300 0.25 mm
- CC6207383300 0.50 mm
- CC6207373300 0.75 mm
- CC6207363300 1.00 mm

Fractured Con Rod Bearing
- C4993834 STD
- C4993835 0.25 mm
- C4993836 0.50 mm
- C4993837 0.75 mm
- C4993838 1.00 mm

Priced and sold by pair. Use 4 pairs

Thrust Washer Set
- C4982149 STD
- CC6204298500 0.25 mm
- CC6204288500 0.50 mm
- CC6204278500 0.75 mm
- CC6204268500 1.00 mm

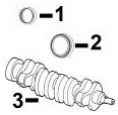
Priced and Sold as a set. Use 1 Set

Piston Kit:

1) 1x CC6205312190 Piston Std, 1x CC6205312300 Ring Set Std, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

2) 1x CC6205392190 Piston 0.25 mm, 1x CC6205382300 Ring Set 0.25 mm, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

3) 1x CC6205382190 Piston 0.50 mm, 1x CC6205392300 Ring Set 0.50 mm, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.



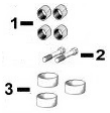
1) **Front Seal**
- CC6204213510

2) **Rear Seal**
- CC6140211341

3) **Crankshaft**

1) **Overhaul Gasket Set**
- C3800939 2

3) **Head Gasket**
- CC6204111830 3
- CC6204111840 3



1) **Bushing, Piston**
- C4944479 x4

2) **Bushing, Camshaft**
- C4994312 x2
- C4994313 x1

3) **Bolt, Con Rod**
- CC6204313310 x8

1) **Tappet**
- C4982154 x8

2) **Push Rod**
- C4944182 x8

Guide, Valve
- C4982846 x8

Spring Valve
- C4982896 x8

Intake, Valve
- C4982907 x4

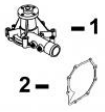
Insert, Intake Valve
- C4982847 x4

Exhaust, Valve
- C4982895 x4 4
- C4982909 x4 7

2) Insert, Exhaust Valve
- C4982908 x4

Seal, Valve Steam
- C4982899 x8

Retainer, Valve
- C4982898 x16

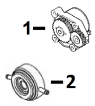


1) **Water Pump**
- C3800883

2) **Water Pump Gasket**
- C4982218

1) **Injector**
- C4089877

2) **Repair Sleeve**
- KM6207-21-2121 5
- 95RS 6



1) **Oil Pump**
- C4941148 Each gear in the pair is 12mm wide
- C4945774 Each gear in the pair is 21mm wide

2) **Oil Cooler**
- C4982639 3

(1): In development

(2): Includes 2 head gaskets CC6204111830 & CC6204111840. Front and Rear Crank seals are sold separately.

(3): Check Application for proper use

(4): Dimensionally similar to C4982909 with out a Stellite Face

(5): Repair Sleeve with flange

(6): Straight Repair Sleeve

(7): Dimensionally similar to C4982895 with a Stellite Face

CUMMINS 4BT 3.3 QSB PISTON (M): 4941139

Engine Series:
QSB

Engine Model:
QSB3.3

Engine Data:
TURBOCHARGED 8 VALVES

Engine Info:
4 Cyl

Engine Dimensions:
199 Cubic Inch Bore: 3.74 in / 95 mm Stroke: 4.52 in / 115 mm

Piston (M):
4941139

Komatsu Engines
SAA4D95LE

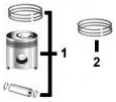
Komatsu Wheel Loaders
WA90-6
WA100M-6

Komatsu Excavator
PC88MR
PC118MR-8

Komatsu Wheel Excavator
PW118MR-8

1) **Engine O/H Kit**
- COK5416/4 Std
- COK5837/4 0.25 mm
- COK5836/4 0.50 mm [1]

2) **O/H Kit Fractured Rod**
- COK5416F/4 Std
- COK5837F/4 0.25 mm
- COK5836F/4 0.50 mm [1]



1) **Piston & Ring Kit**
- C4955416 STD
- C4955837 0.25 mm
- C4955836 0.50 mm [1]

Use 4

2) **Ring Set**
- C5345253 STD
- C5345257 0.25 mm
- C5345273 0.50 mm [1]

Main Bearing Set
- C3800872 Std
- CC6204298100 0.25 mm
- CC6204288100 0.50 mm
- CC6204278100 0.75 mm
- CC6204268100 1.00 mm

Priced and sold as a set of 5 pairs. Use 1 set

Con Rod Bearing
- CC6207313300 STD
- CC6207393300 0.25 mm
- CC6207383300 0.50 mm
- CC6207373300 0.75 mm
- CC6207363300 1.00 mm

Fractured Con Rod Bearing
- C4993834 STD
- C4993835 0.25 mm
- C4993836 0.50 mm
- C4993837 0.75 mm
- C4993838 1.00 mm

Priced and sold by pair. Use 4 pairs

Thrust Washer Set
- C4982149 STD
- CC6204298500 0.25 mm
- CC6204288500 0.50 mm
- CC6204278500 0.75 mm
- CC6204268500 1.00 mm

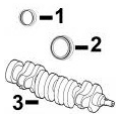
Priced and Sold as a set. Use 1 Set

Piston Kit:

1) 1x C4941139 Piston Std, 1x C5345253 Ring Set Std, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

2) 1x C4992405 Piston 0.25 mm, 1x C5345257 Ring Set 0.25 mm, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

3) 1x C4992404 Piston 0.50 mm, 1x C5345273 Ring Set 0.50 mm, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.



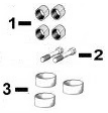
1) **Front Seal**
- CC6204213510

2) **Rear Seal**
- CC6140211341

3) **Crankshaft**

1) **Overhaul Gasket Set**
- C4955996

3) **Head Gasket**
- CC6204111840



1) **Bushing, Piston**
- C4944479 x4

2) **Bushing, Camshaft**
- C4994312 x2
- C4994313 x1

3) **Bolt, Con Rod**
- CC6204313310 x8

1) **Tappet**
- C4982154 x8

2) **Push Rod**
- C4944182 x8

Guide, Valve
- C4982846 x8

Spring Valve
- C4982896 x8

Intake, Valve
- C4982907 x4

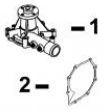
Insert, Intake Valve
- C4982847 x4

Exhaust, Valve
- C4982895 x4 [4]
- C4982909 x4 [7]

2) Insert, Exhaust Valve
- C4982908 x4

Seal, Valve Steam
- C4982899 x8

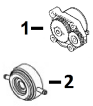
Retainer, Valve
- C4982898 x16



1) **Water Pump**
- C4955417

2) **Water Pump Gasket**
- C4982218

1) **Repair Sleeve**
- KM6207-21-2121 [5]
- 95RS [6]



1) **Oil Pump**
- C4941148 Each gear in the pair is 12mm wide
- C4945774 Each gear in the pair is 21mm wide

2) **Oil Cooler**
- C4982639 [3]

(1): In development

(2): Includes 2 head gaskets CC6204111830 & CC6204111840. Front and Rear Crank seals are sold separately.

(3): Check Application for proper use

(4): Dimensionally similar to C4982909 with out a Stellite Face

(5): Repair Sleeve with flange

(6): Straight Repair Sleeve

(7): Dimensionally similar to C4982895 with a Stellite Face

CUMMINS 4BT 3.3 QSB PISTON (M): 4944477

Engine Series:
QSB

Engine Model:
QSB3.3

Engine Data:
TURBOCHARGED 8 VALVES

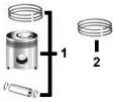
Engine Info:
4 Cyl

Engine Dimensions:
199 Cubic Inch Bore: 3.74 in / 95 mm Stroke: 4.52 in / 115 mm

Piston (M):
4944477

1) **Engine O/H Kit**
- COK5573/4 Std
- COK5839/4 0.25 mm
- COK5838/4 0.50 mm 1

2) **O/H Kit Fractured Rod**
- COK5573F/4 Std
- COK5839F/4 0.25 mm
- COK5838F/4 0.50 mm 1



1) **Piston & Ring Kit**
- C4955573 STD
- C4955839 0.25 mm
- C4955838 0.50 mm 1

Use 4

2) **Ring Set**
- C5345253 STD
- C5345257 0.25 mm
- C5345273 0.50 mm 1

Main Bearing Set
- C3800872 Std
- CC6204298100 0.25 mm
- CC6204288100 0.50 mm
- CC6204278100 0.75 mm
- CC6204268100 1.00 mm

Priced and sold as a set of 5 pairs. Use 1 set

Con Rod Bearing
- CC6207313300 STD
- CC6207393300 0.25 mm
- CC6207383300 0.50 mm
- CC6207373300 0.75 mm
- CC6207363300 1.00 mm

Fractured Con Rod Bearing
- C4993834 STD
- C4993835 0.25 mm
- C4993836 0.50 mm
- C4993837 0.75 mm
- C4993838 1.00 mm

Priced and sold by pair. Use 4 pairs

Thrust Washer Set
- C4982149 STD
- CC6204298500 0.25 mm
- CC6204288500 0.50 mm
- CC6204278500 0.75 mm
- CC6204268500 1.00 mm

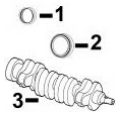
Priced and Sold as a set. Use 1 Set

Piston Kit:

1) 1x C4944477 Piston Std, 1x C5345253 Ring Set Std, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

2) 1x C4992407 Piston 0.25 mm, 1x C5345257 Ring Set 0.25 mm, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

3) 1x C4992406 Piston 0.50 mm, 1x C5345273 Ring Set 0.50 mm, 1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.



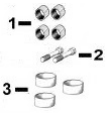
1) **Front Seal**
- CC6204213510

2) **Rear Seal**
- CC6140211341

3) **Crankshaft**

1) **Overhaul Gasket Set**
- C4955996

3) **Head Gasket**
- CC6204111840



1) **Bushing, Piston**
- C4944479 x4

2) **Bushing, Camshaft**
- C4994312 x2
- C4994313 x1

3) **Bolt, Con Rod**
- CC6204313310 x8

1) **Tappet**
- C4982154 x8

2) **Push Rod**
- C4944182 x8

Guide, Valve
- C4982846 x8

Spring Valve
- C4982896 x8

Intake, Valve
- C4982907 x4

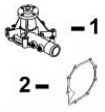
Insert, Intake Valve
- C4982847 x4

Exhaust, Valve
- C4982895 x4 4
- C4982909 x4 7

2) Insert, Exhaust Valve
- C4982908 x4

Seal, Valve Steam
- C4982899 x8

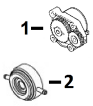
Retainer, Valve
- C4982898 x16



1) **Water Pump**
- C4955417 3

2) **Water Pump Gasket**
- C4982218

1) **Repair Sleeve**
- KM6207-21-2121 5
- 95RS 6



1) **Oil Pump**
- C4941148 Each gear in the pair is 12mm wide 3
- C4945774 Each gear in the pair is 21mm wide 3

2) **Oil Cooler**
- C4982639 3

(1): In development

(2): Includes 2 head gaskets CC6204111830 & CC6204111840. Front and Rear Crank seals are sold separately.

(3): Check Application for proper use

(4): Dimensionally similar to C4982909 with out a Stellite Face

(5): Repair Sleeve with flange

(6): Straight Repair Sleeve

(7): Dimensionally similar to C4982895 with a Stellite Face

CUMMINS 4BT 3.3 QSB PISTON (M): 5272092

Engine Series:
QSB

Engine Model:
QSB3.3

Engine Desc:
TIER 4 FINAL

Engine Data:
TURBOCHARGED 16 VALVES

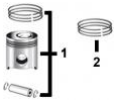
Engine Info:
4 Cyl

Engine Dimensions:
199 Cubic Inch Bore: 3.74 in / 95 mm Stroke: 4.52 in / 115 mm

Piston (M):
5272092

1) **Engine O/H Kit**
- COK9266/4 Std
- COK9266B/4 0.50 mm

2) **O/H Kit Fractured Rod**
- COK9266F/4 Std
- COK9266BF/4 0.50 mm



1) **Piston & Ring Kit**
- C4309266 STD
- C4309266B 0.50 mm

Use 4

2) **Ring Set**
- C5345277 STD
- C5345277B 0.50 mm

Main Bearing Set
- C3800872 Std
- CC6204298100 0.25 mm
- CC6204288100 0.50 mm
- CC6204278100 0.75 mm
- CC6204268100 1.00 mm

Priced and sold as a set of 5 pairs. Use 1 set

Con Rod Bearing Pair
- CC6207313300 STD
- CC6207393300 0.25 mm
- CC6207383300 0.50 mm
- CC6207373300 0.75 mm
- CC6207363300 1.00 mm

Fractured Con Rod Bearing
- C4993834 STD
- C4993835 0.25 mm
- C4993836 0.50 mm
- C4993837 0.75 mm
- C4993838 1.00 mm

Priced and sold by pair. Use 4 pairs

Thrust Washer Set
- C4982149 STD
- CC6204298500 0.25 mm
- CC6204288500 0.50 mm
- CC6204278500 0.75 mm
- CC6204268500 1.00 mm

Priced and Sold as a set. Use 1 Set

Piston Kit:

1) 1x C5272092 Piston Std, 1x C5345277 Ring Set Std,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

2) 1x C5272092B Piston 0.50 mm, 1x C5345277B Ring Set 0.50 mm,
1x CC6204312410 Piston Pin, 2x CC0406503012 Retainer.

1) **Front Seal**
- CC6204213510

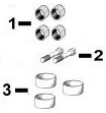
2) **Rear Seal**
- CC6140211341

1) **Overhaul Gasket Set**
- C4309433

3) **Head Gasket**
- C5272095

Valve Cover Gasket
- C5271000 Lower - Graphite
- C5271001 Upper - Rubber seal

Front Timing Cover Gasket
- C5297095



1) **Bushing, Piston**
- C4944479 x4

2) **Bushing, Camshaft**
- C4994312 x2
- C4994313 x1

3) **Bolt, Con Rod**
- CC6204313310 x8

1) **Tappet**
- C4982154 x16

2) **Push Rod**
- C5271477 x16

Guide, Valve
- C5271476 x16

Spring Valve
- C5297204 x16 (3)
- C5271473 x16 (3)

Intake, Valve
- C5271471 x8 (3)
- C5297204 x8 (3)

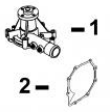
Insert, Intake Valve
- C5297205 x8

Exhaust, Valve
- C5309399 x8

Insert, Exhaust Valve
- C5271475 x8

Seal, Valve Steam
- C5272080 x16

Locks, Valve
- C5271478 x32



1) **Water Pump**
- C5271093

2) **Water Pump Gasket**
- C5271096

Repair Sleeve
- KM6207-21-2121 x4 (5)
- 95RS (6)

Oil Pump
- C5304284 Straight drive gear, 22T; driven rotor pair height: 21 mm (3)

(1): In development

(2): Includes 2 head gaskets CC6204111830 & CC6204111840. Front and Rear Crank seals are sold separately.

(3): Check Application for proper use

(4): Dimensionally similar to C4982909 with a Stellite Face

(5): Repair Sleeve with flange

(6): Straight Repair Sleeve

CUMMINS 4BT 3.9 PISTON (M): 7163

Engine Series:
B

Engine Model:
4BT 3.9

Engine Desc:
CDC 4.390

Engine Data:
TURBOCHARGED NON – EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

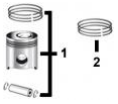
Piston (M):
7163

Please see page **632** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2160/4 Std
- COK2132/4 0.50 mm
- COK2134/4 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2160F/4 Std (11)
- COK2132F/4 0.50
- COK2134F/4 1.00

3) **Engine I/F Kit**
- CIK2160/4 Std
- CIK2132/4 0.50 mm
- CIK2134/4 1.00 mm
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802160 Std
- C3802132 0.50 mm
- C3802134 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std (11)
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

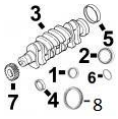
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3907163 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.

2) 1 C3908815 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

3) 1 C3908816 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) (10)
- C3905427 (127T) (10)
- C3901774 (159T) (10)
- C3902127 (138T) (10)

1) **Top Gasket Set**
- C3804896

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3914385 (10)

9) **Front Gear Housing**
- C5267784 (10)

1) **Bushing, Piston**
- C4891178 x4

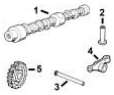
2) **Bushing, Cam**
- C3901306 x1 (3)

3) **Bolt, Con Rod**
- C3900919 (7)
- C4891179 (8)

4) **Con Rod**
- C3901569 (7)
- C4943979 (8)

5) **Bolt, Ex Manifold**
- C3944593 (12)
- C3944655 (13)

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3925582 (9)

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall (1)

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854 Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

1) **Spring, Valve**
- C3900276 x8

2) **Seal, Valve**
- C3921640 x8 (5)
- C3957912 x8 (6)

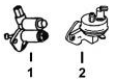
3) **Retainer, Valve**
- C3900299 x8 (5)

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926202



1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 (2)

1) **Cylinder Head**
- C3920005 (14) (4)

2) **Head Bolt Kit**
- C4B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK

1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3909476 9mm (10)
- C3919331 7mm (10)
- C3919343 7mm (10)

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check application for proper usage.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

CUMMINS 4BTA 3.9 PISTON (M): 7156

Engine Series:
B

Engine Model:
4BTA 3.9

Engine Desc:
(CDC 4.390)

Engine Data:
TURBOCHARGED AFTERCOOLED NON – EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

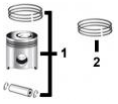
Piston (M):
7156

Please see page **633** for a complete list of equipment models.

1) Engine O/H Kit
- COK2100/4 Std
- COK2102/4 0.50 mm
- COK2104/4 1.00 mm

2) O/H Kit fractured rod
- COK2100F/4 Std 11
- COK2102F/4 0.50mm
- COK2104F/4 1.00mm

3) Engine I/F Kit
- CIK2100/4 Std
- CIK2102/4 0.50 mm
- CIK2104/4 1.00 mm
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802100 Std
- C3802102 0.50 mm
- C3802104 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 11
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3907156 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.

2) 1 C3907157 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

3) 1 C3907158 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

1) Front Seal
- C3904353

2) Rear Seal
- C3353978

3) Crankshaft
- C3907803

4) Front Seal Sleeve
- C3906080

5) Rear Seal Sleeve
- C3906081

6) Rectangular Seal
- C3912473

7) Crankshaft, Gear
- C3901258

8) Ring Gear
- C3903309 (173T) 10
- C3905427 (127T) 10
- C3901774 (159T) 10
- C3902127 (138T) 10

1) Top Gasket Set
- C3804896

2) Bottom Gsk Set
- C3802375

3) Head Gasket
- C3921393

4) Oil Pan Gasket
- C3931602

5) Valve Cover Gsk
- C3902666

6) Gear Housing Gsk
- C3916131

7) Rear Cover Gskt
- C3928493

8) Gear Cover Gasket
- C3914385 10

9) Front Gear Housing
- C5267784 10

1) Bushing, Piston
- C4891178 x4

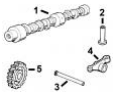
2) Bushing, Cam
- C3901306 x1 3

3) Bolt, Con Rod
- C3900919 7
- C4891179 8

4) Con Rod
- C3901569 7
- C4943979 8

5) Bolt, Ex Manifold
- C3944593 11
- C3944655 12

6) Spacer, Ex Manifold
- C3945252



1) Camshaft
- C3925582 9

2) Tappet
- C3925031

3) Push Rod
- C3904679

4) Rocker Arms
- C3910811 x4
- C3910810 x4

5) Camshaft Gear
- C3907431

6) Camshaft Key
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) Intake, Valve Kit
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) Insert, Valve
- C3906854 Use 4

1) Exhaust, Valve Kit
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) Insert, Valve
- C3904105

1) Spring, Valve
- C3900276 x8

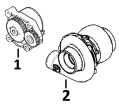
2) Seal, Valve
- C3921640 x8 5
- C3957912 x8 6

3) Retainer, Valve
- C3900299 x8 5

1) Water Pump
- C3286277

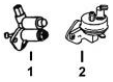
2) Water Pump Seal
- C3906698

3) Thermostat
- C3802273



1) Pump, Oil
- C3926202

2) Turbocharger
- C3802290 10



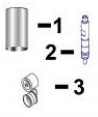
1) Lift Pump
- C3918000

2) Lift Pump
- C3904374 2

1) Cylinder Head
- C3920005 14 4

2) Head Bolt Kit
- C4B-HBK

3) Block Exp Plug Kit
- C6BEXPK



1) Repair Sleeve
- C3904166

2) Injector
- C3909476 9mm 10
- C3919343 7mm 10

3) Belt Tensioner
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check for proper application.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
4B 3.9

Engine Desc:
(CDC 4.390)

Engine Data:
NATURALLY ASPIRATED NON – EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
6223

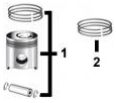
Please see page **634** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2060/4 Std
- COK2062/4 0.50 mm
- COK2064/4 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2060F/4 Std 11
- COK2062F/4 0.50 11
- COK2064F/4 1.00 11

3) **Engine I/F Kit**
- CIK2060/4 Std
- CIK2062/4 0.50 mm
- CIK2064/4 1.00 mm

4) **I/F Kit Fractured Rod**
- CIK2060F/4 Std 11
- CIK2062F/4 0.50 mm 11
- CIK2064F/4 1.00 mm 11
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802060 Std
- C3802062 0.50 mm
- C3802064 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 11
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

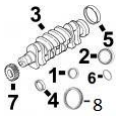
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3906223 Piston Std, 1 C3802040 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.

2) 1 C3906209 Piston 0.50 mm, 1 C3802042 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

3) 1 C3906208 Piston 1.00 mm, 1 C3802044 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

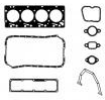
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 10
- C3905427 (127T) 10
- C3901774 (159T) 10
- C3902127 (138T) 10



1) **Top Gasket Set**
- C3804896

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gskt**
- C3928493

8) **Gear Cover Gasket**
- C3914385 10

9) **Front Gear Housing**
- C5267784 10

1) **Bushing, Piston**
- C4891178 x4

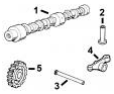
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919 7
- C4891179 8

4) **Con Rod**
- C3901569 7
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 12
- C3944655 13

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3925582 9

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854 Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

1) **Spring, Valve**
- C3900276 x8

2) **Seal, Valve**
- C3921640 x8 5
- C3957912 x8 6

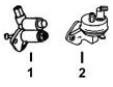
3) **Retainer, Valve**
- C3900299 x8 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

Pump, Oil
- C3926202



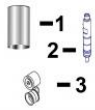
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3920005 14 4

2) **Head Bolt Kit**
- C4B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK



1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3914474 9mm 10
- C3919304 7mm 10

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check for proper application.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
4BT 3.9

Engine Desc:
AUTOMOTIVE

Engine Data:
TURBOCHARGED EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
6632

Cummins CPL's
1839
2001
2195
2304

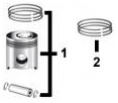
TIMBERJACK
230 - Forwarder

YTO
LRS1016 - Pneumatic Roller

1) **Engine O/H Kit**
- COK2562/4 Std
- COK2564/4 0.50 mm
- COK2565/4 1.00 mm

2) **O/H Kit fractured rod**
- COK2562F/4 Std (11)
- COK2564F/4 0.50
- COK2565F/4 1.00

3) **Engine I/F Kit**
- CIK2562/4 Std
- CIK2564/4 0.50 mm
- CIK2565/4 1.00 mm
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802562 Std
- C3802564 0.50 mm
- C3802565 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std (11)
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

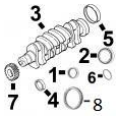
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3926632 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3926634 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3926635 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) (10)
- C3905427 (127T) (10)
- C3901774 (159T) (10)
- C3902127 (138T) (10)

1) **Top Gasket Set**
- C3804896

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

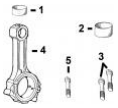
5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gskt**
- C3928493

8) **Gear Cover Gasket**
- C3918673 (10)

9) **Front Gear Housing**
- C3931382 (10)
- C5267783 (10)



1) **Bushing, Piston**
- C4891178 x4

2) **Bushing, Cam**
- C3901306 x1 (3)

3) **Bolt, Con Rod**
- C3900919 (7)
- C4891179 (8)

4) **Con Rod**
- C3901569 (7)
- C4943979 (8)

5) **Bolt, Ex Manifold**
- C3944593 (12)
- C3944655 (13)

6) **Spacer, Ex Manifold**
- C3945252

1) **Camshaft**
- C3925582 (9)

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall (1)

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854 Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

1) **Spring, Valve**
- C3900276 x8

2) **Seal, Valve**
- C3921640 x8 (5)
- C3957912 x8 (6)

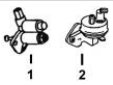
3) **Retainer, Valve**
- C3900299 x8 (5)

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

Pump, Oil
- C3926202



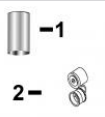
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 (2)

1) **Cylinder Head**
- C3920005 (14) (4)

2) **Head Bolt Kit**
- C4B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check for proper application.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

CUMMINS 4BTA 3.9 PISTON (M): 9041

Engine Series:
B

Engine Model:
4BTA 3.9

Engine Data:
TURBOCHARGED AFTERCOOLED EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
9041

Cummins CPL's
986
1260

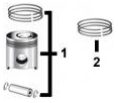
Ingersoll Rand
PF161 - Asphalt Pavers

Skidder
Ranger F65G

1) **Engine O/H Kit**
- COK2248/4 Std
- COK2249/4 0.50 mm
- COK2250/4 1.00 mm

2) **O/H Kit fractured rod** 11
- COK2248F/4 Std
- COK2249F/4 0.50
- COK2250F/4 1.00

3) **Engine I/F Kit**
- CIK2248/4 Std
- CIK2249/4 0.50 mm
- CIK2250/4 1.00 mm
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802248 Std
- C3802249 0.50 mm
- C3802250 1.00 mm

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 11
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

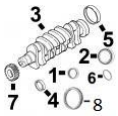
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3919041 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3919044 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3919045 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 10
- C3905427 (127T) 10
- C3901774 (159T) 10
- C3902127 (138T) 10

1) **Top Gasket Set**
- C3804896

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gskt**
- C3928493

8) **Gear Cover Gasket**
- C3918673 10

9) **Front Gear Housing**
- C5267784 10

1) **Bushing, Piston**
- C4891178 x4

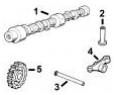
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919 7
- C4891179 8

4) **Con Rod**
- C3901569 7
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 12
- C3944655 13

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3925582 9

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854 Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

1) **Spring, Valve**
- C3900276 x8

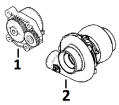
2) **Seal, Valve**
- C3921640 x8 5
- C3957912 x8 6

3) **Retainer, Valve**
- C3900299 x8 5

1) **Water Pump**
- C3286277

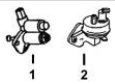
2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273



1) **Pump, Oil**
- C3926202

2) **Turbocharger**
- C3802290 10



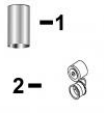
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3920005 14 4

2) **Head Bolt Kit**
- C4B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK 10
- C6BEXPKS 10



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check for proper application.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

CUMMINS 4BTA 3.9 PISTON (M): 8673

Engine Series:
B

Engine Model:
4BTA 3.9

Engine Data:
TURBOCHARGED AFTERCOOLED EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

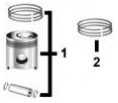
Piston (M):
8673

Please see page **635** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2747/4 Std
- COK2764/4 0.50 mm
- COK2765/4 1.00 mm

2) **O/H Kit fractured rod** 11
- COK2747F/4 Std
- COK2764F/4 0.50
- COK2765F/4 1.00

3) **Engine I/F Kit**
- CIK2747/4 Std
- CIK2764/4 0.50 mm
- CIK2765/4 1.00 mm
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802747 Std
- C3802764 0.50 mm
- C3802765 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 11
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

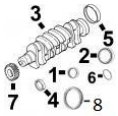
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3928673 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3928674 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3928675 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 10
- C3905427 (127T) 10
- C3901774 (159T) 10
- C3902127 (138T) 10

1) **Top Gasket Set**
- C3804896

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gskt**
- C3928493

8) **Gear Cover Gasket**
- C3918673 10

9) **Front Gear Housing**
- C3931382 10
- C5267782 10

1) **Bushing, Piston**
- C4891178 x4

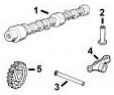
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919 7
- C4891179 8

4) **Con Rod**
- C3901569 7
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 12
- C3944655 13

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3925582 9

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854 Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

1) **Spring, Valve**
- C3900276 x8

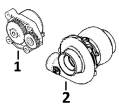
2) **Seal, Valve**
- C3921640 x8 5
- C3957912 x8 6

3) **Retainer, Valve**
- C3900299 x8 5

1) **Water Pump**
- C3286277

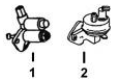
2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273



1) **Pump, Oil**
- C3926202

2) **Turbocharger**
- C3802290 10
- C3802906 10



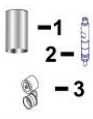
1) **Lift Pump**
- C3918000
- C3917998 10

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3920005 14 4

2) **Head Bolt Kit**
- C4B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK 10
- C6BEXPKS 10



1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3929490 10

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check for proper application.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

CUMMINS 4BT 3.9 PISTON (M): 0187

Engine Series:
B

Engine Model:
4BT 3.9

Engine Data:
TURBOCHARGED EMISSION

Engine Info:
4 Cyl

Engine Dimensions:
239 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
0187

Cummins CPL's
1963
2264

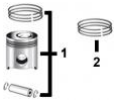
Timberjack
230 - Forwarder

YTO
LRS1016 - Pneumatic Roller

1) **Engine O/H Kit**
- COK2757/4 Std
- COK2758/4 0.50 mm
- COK2759/4 1.00 mm

2) **O/H Kit fractured rod**
- COK2757F/4 Std [11]
- COK2758F/4 0.50
- COK2759F/4 1.00

3) **Engine I/F Kit**
- CIK2757/4 Std
- CIK2758/4 0.50 mm
- CIK2759/4 1.00 mm
- SPEC SHEET - 4BT 3.9



Piston & Ring Kit
- C3802757 Std
- C3802758 0.50 mm
- C3802759 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std [11]
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

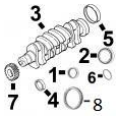
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3930187 Piston Std, 1 C3802750 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3930188 Piston 0.50 mm, 1 C3802863 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.

3) 1 C3930189 Piston 1.00 mm, 1 C3802864 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) [10]
- C3905427 (127T) [10]
- C3901774 (159T) [10]
- C3902127 (138T) [10]

1) **Top Gasket Set**
- C3804896

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gskt**
- C3928493

8) **Gear Cover Gasket**
- C3918673 [10]

9) **Front Gear Housing**
- C3931382 [10]
- C5267783 [10]

1) **Bushing, Piston**
- C4891178 x4

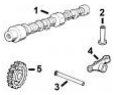
2) **Bushing, Cam**
- C3901306 x1 [3]

3) **Bolt, Con Rod**
- C3900919 [7]
- C4891179 [8]

4) **Con Rod**
- C3901569 [7]
- C4943979 [8]

5) **Bolt, Ex Manifold**
- C3944593 [12]
- C3944655 [13]

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3925582 [9]

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall [1]

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854 Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

1) **Spring, Valve**
- C3900276 x8

2) **Seal, Valve**
- C3921640 x8 [5]
- C3957912 x8 [6]

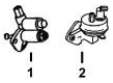
3) **Retainer, Valve**
- C3900299 x8 [5]

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926202



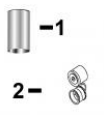
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 [2]

1) **Cylinder Head**
- C3920005 [14] [4]

2) **Head Bolt Kit**
- C4B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Machine split connecting rod.

(8): Fracture split connecting rod.

(9): Use ESN or application model to confirm correct camshaft.

(10): Check for proper application.

(11): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(12): Flanged Head Cap Screw.

(13): Studded Flange Cap Screw.

(14): Machined for 7mm nozzles.

CUMMINS 6BT 5.9 PISTON (M): 7163

Engine Series:
B

Engine Model:
6BT 5.9

Engine Desc:
(CDC 6.590)

Engine Data:
TURBOCHARGED NON – EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

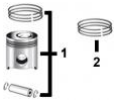
Piston (M):
7163

Please see page **636** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2160/6 Std
- COK2132/6 0.50 mm
- COK2134/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2160F/6 Std 10
- COK2132F/6 0.50
- COK2134F/6 1.00

3) **Engine I/F Kit**
- CIK2160/6 Std
- CIK2132/6 0.50 mm
- CIK2134/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802160 Std
- C3802132 0.50 mm
- C3802134 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 10
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

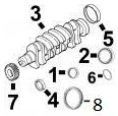
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3907163 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.

2) 1 C3908815 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

3) 1 C3908816 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

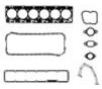
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3914385 9

9) **Front Gear Housing**
- C5267784 9

1) **Bushing, Piston**
- C4891178 x6

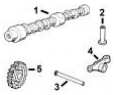
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 8
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

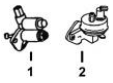
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

Turbocharger
- C3802289 9



1) **Lift Pump**
- C3918000
- C3904374 2

2) **Pump, Oil**
- C3926203

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK

1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3909476 9mm 9
- C3919331 7mm 9
- C3919343 7mm 9

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BTA 5.9

Engine Desc:
(CDC 6.590)

Engine Data:
TURBOCHARGED AFTERCOOLED NON – EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

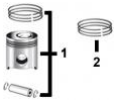
Piston (M):
7156

Please see page **637** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2100/6 Std
- COK2102/6 0.50 mm
- COK2104/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2100F/6 Std 10
- COK2102F/6 0.50
- COK2104F/6 1.00

3) **Engine I/F Kit**
- CIK2100/6 Std
- CIK2102/6 0.50 mm
- CIK2104/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802100 Std
- C3802102 0.50 mm
- C3802104 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 10
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

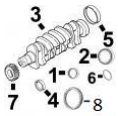
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3907156 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.

2) 1 C3907157 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

3) 1 C3907158 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

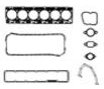
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

Ring Gear
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3914385 9

9) **Front Gear Housing**
- C5267784 9

1) **Bushing, Piston**
- C4891178 x6

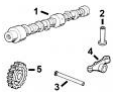
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 8
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
C3900276

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

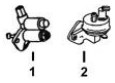
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

Turbocharger
- C3802289 9



1) **Lift Pump**
- C3918000
- C3904374 2

2) **Pump, Oil**
- C3926203

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK

1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3909476 9mm 9
- C3919343 7mm 9

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6B 5.9

Engine Desc:
(CDC 6.590)

Engine Data:
NATURALLY ASPIRATED NON – EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

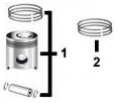
Piston (M):
6223

Please see page **638** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2060/6 Std
- COK2062/6 0.50 mm
- COK2064/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2060F/6 Std 10
- COK2062F/6 0.50
- COK2064F/6 1.00

3) **Engine I/F Kit**
- CIK2060/6 Std
- CIK2062/6 0.50 mm
- CIK2064/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802060 Std
- C3802062 0.50 mm
- C3802064 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 10
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

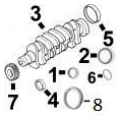
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3906223 Piston Std, 1 C3802040 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.

2) 1 C3906209 Piston 0.50 mm, 1 C3802042 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.

3) 1 C3906208 Piston 1.00 mm, 1 C3802044 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

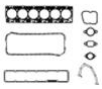
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

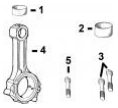
5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3914385 9

9) **Front Gear Housing**
- C5267784 9



1) **Bushing, Piston**
- C4891178 x6

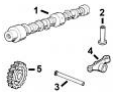
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919 7
- C4891179 8

4) **Con Rod**
- C3901569 7
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

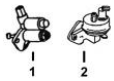
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK

1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3914474 9mm 9
- C3919304 7mm 9

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BT 5.9

Engine Desc:
(CDC 6.590)

Engine Data:
TURBOCHARGED NON – EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
1400

Cummins CPL's

953 - Marine Engines
970 - Marine Engines
1165
1247 - Marine Engines
1313
1322 - Marine Engines
1570 - Marine Engines
1613 - Marine Engines
1638
1928 - Marine Engines

Terex

VDA 600 - Asphalt Paver
VDA 621 - Asphalt Paver
VDA 700 - Asphalt Paver
VDA 721 - Asphalt Paver

Stavostroj

VV1400D - Vibratory Compactor
VV900 - Vibratory Compactor
VV900D - Vibratory Compactor

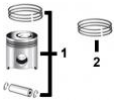
YTO

YL25 - Pneumatic Roller
LGS1822B - Static Smooth Drum Roller

1) **Engine O/H Kit**
- COK1400/6 Std
- COK2049/6 0.50 mm
- COK2050/6 1.00 mm

2) **O/H Kit Fractured Rod** 10
- COK1400F/6 Std
- COK2049F/6 0.50
- COK2050F/6 1.00

3) **Engine I/F Kit**
- CIK1400/6 Std
- CIK2049/6 0.50 mm
- CIK2050/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802170 Std
- C3802172 0.50 mm
- C3802174 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing 10
- C4893693 Std
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

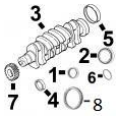
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3911400 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3912049 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3912050 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

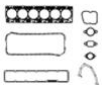
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376 14

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 9

1) **Bushing, Piston**
- C4891178 x6

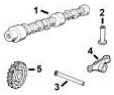
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 8
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

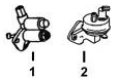
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



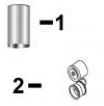
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

(14): Rear and Front Crank seals are included

CUMMINS 6BT 5.9 PISTON (M): 6632

Engine Series:
B

Engine Model:
6BT 5.9

Engine Data:
TURBOCHARGED EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

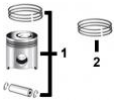
Piston (M):
6632

Please see page **639** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2562/6 Std
- COK2564/6 0.50 mm
- COK2565/6 1.00 mm

2) **O/H Kit Fractured Rod** 10
- COK2562F/6 Std
- COK2564F/6 0.50
- COK2565F/6 1.00

3) **Engine I/F Kit**
- CIK2562/6 Std
- CIK2564/6 0.50 mm
- CIK2565/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802562 Std
- C3802564 0.50 mm
- C3802565 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Rod bearings are priced and sold per shell

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 10
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

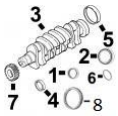
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3926632 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3926634 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3926635 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

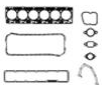
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 9

9) **Front Gear Housing**
- C3931382 9
- C5267783 9

1) **Bushing, Piston**
- C4891178 x6

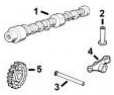
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 8
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

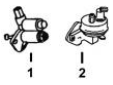
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS

1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BTA 5.9

Engine Data:
TURBOCHARGED AFTERCOOLED EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

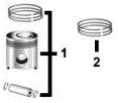
Piston (M):
2571

Please see page **640** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2487/6 Std
- COK2493/6 0.50 mm
- COK2495/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2487F/6 Std 10
- COK2493F/6 0.50
- COK2495F/6 1.00

3) **Engine I/F Kit**
- CIK2487/6 Std
- CIK2493/6 0.50 mm
- CIK2495/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802487 Std
- C3802493 0.50 mm
- C3802495 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 10
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

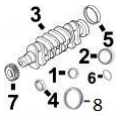
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3922571 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3922574 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3922575 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

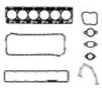
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 9

9) **Front Gear Housing**
- C3931382 9
- C5267782 9

1) **Bushing, Piston**
- C4891178 x6

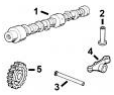
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 8
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639 9

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

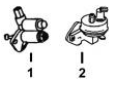
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



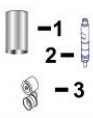
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3929490 9

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BTA 5.9

Engine Data:
TURBOCHARGED AFTERCOOLED EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
7619

Cummins CPL's
987
1261
1422
1527

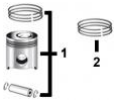
Skidder
F66DS - Ranger
F66G - Ranger
F67 - Ranger
F67G - Ranger
G67G - Ranger
F667 - Ranger

YTO
LRS2030 - Pneumatic Roller

1) **Engine O/H Kit**
- COK2251/6 Std
- COK2252/6 0.50 mm
- COK2253/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2251F/6 Std (10)
- COK2252F/6 0.50
- COK2253F/6 1.00

3) **Engine I/F Kit**
- CIK2251/6 Std
- CIK2252/6 0.50 mm
- CIK2253/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802251 Std
- C3802252 0.50 mm
- C3802253 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std (10)
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

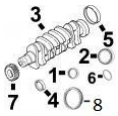
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3917619 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3919047 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3919048 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

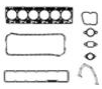
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) (9)
- C3905427 (127T) (9)
- C3901774 (159T) (9)
- C3902127 (138T) (9)



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 (7)

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 (9)

1) **Bushing, Piston**
- C4891178 x6

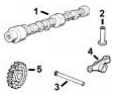
2) **Bushing, Cam**
- C3901306 x1 (3)

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 (8)
- C4943979 (8)

5) **Bolt, Ex Manifold**
- C3944593 (11)
- C3944655 (12)

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall (1)

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 (5)
- C3957912 x12 (6)

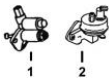
3) **Retainer, Valve**
- C3900299 x12 (5)

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



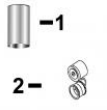
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 (2)

1) **Cylinder Head**
- C3913381 (13) (4)

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BTA 5.9

Engine Data:
TURBOCHARGED EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
9041

Cummins CPL's
1351
1579

LiuGong
614H - Vibratory Compactor

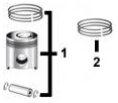
YTO
LRS2030 - Pneumatic Roller

Skidder
F66DS - Ranger
F66G - Ranger
F67 - Ranger
F67G - Ranger
G67G - Ranger
F667 - Ranger

1) **Engine O/H Kit**
- COK2248/6 Std
- COK2249/6 0.50 mm
- COK2250/6 1.00 mm

2) **O/H Kit Fractured Rod** 10
- COK2248F/6 Std
- COK2249F/6 0.50
- COK2250F/6 1.00

3) **Engine I/F Kit**
- CIK2248/6 Std
- CIK2249/6 0.50 mm
- CIK2050/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802248 Std
- C3802249 0.50 mm
- C3802250 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Rod bearings are priced and sold per shell

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 10
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

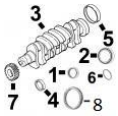
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3919041 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3919044 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3919045 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

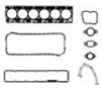
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 7

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 9

9) **Front Gear Housing**
- C5267784 9

1) **Bushing, Piston**
- C4891178 x6

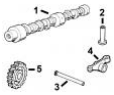
2) **Bushing, Cam**
- C3901306 x1 3

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 8
- C4943979 8

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall 1

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 5
- C3957912 x12 6

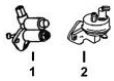
3) **Retainer, Valve**
- C3900299 x12 5

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



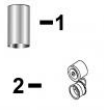
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 2

1) **Cylinder Head**
- C3913381 13 4

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BTA 5.9

Engine Data:
TURBOCHARGED AFTERCOOLED EMISSION

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

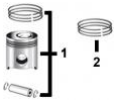
Piston (M):
8673

Please see page **641** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2747/6 Std
- COK2764/6 0.50 mm
- COK2765/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2747F/6 Std [10]
- COK2764F/6 0.50
- COK2765F/6 1.00

3) **Engine I/F Kit**
- CIK2747/6 Std
- CIK2764/6 0.50 mm
- CIK2765/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802747 Std
- C3802764 0.50 mm
- C3802765 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std [10]
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

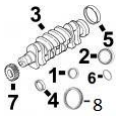
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3928673 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3928674 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3928675 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

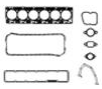
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) [9]
- C3905427 (127T) [9]
- C3901774 (159T) [9]
- C3902127 (138T) [9]



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 [7]

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 [9]

9) **Front Gear Housing**
- C3931382 [9]
- C5267782 [9]

1) **Bushing, Piston**
- C4891178 x6

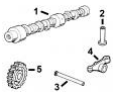
2) **Bushing, Cam**
- C3901306 x1 [3]

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 [8]
- C4943979 [8]

5) **Bolt, Ex Manifold**
- C3944593 [11]
- C3944655 [12]

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall [1]

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

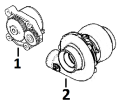
2) **Seal, Valve**
- C3921640 x12 [5]
- C3957912 x12 [6]

3) **Retainer, Valve**
- C3900299 x12 [5]

1) **Water Pump**
- C3286277

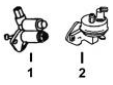
2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273



Pump, Oil
- C3926203

2) **Turbocharger**
- C3537132 [9]



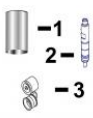
1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 [2]

1) **Cylinder Head**
- C3913381 [13] [4]

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Injector**
- C3929490 [9]

3) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
B

Engine Model:
6BTA 5.9

Engine Data:
TURBOCHARGED AFTERCOOLED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm Stroke: 4.72 in / 119 mm

Piston (M):
0187

Cummins CPL's
1889
2063
2479
8085
8108
8208

LiuGong
614H - Vibratory Compactor

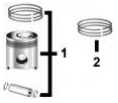
YTO
LRS2030 - Pneumatic Roller

Skidder
F66DS
F66G
F67
F67G
G67G
F667

1) **Engine O/H Kit**
- COK2757/6 Std
- COK2758/6 0.50 mm
- COK2759/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK2757F/6 Std [10]
- COK2758F/6 0.50
- COK2759F/6 1.00

3) **Engine I/F Kit**
- CIK2757/6 Std
- CIK2758/6 0.50 mm
- CIK2759/6 1.00 mm
- SPEC SHEET - 6BT 5.9



Piston & Ring Kit
- C3802757 Std
- C3802758 0.50 mm
- C3802759 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std [10]
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

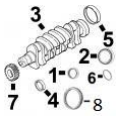
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3930187 Piston Std, 1 C3802750 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3930188 Piston 0.50 mm, 1 C3802863 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3930189 Piston 1.00 mm, 1 C3802864 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

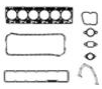
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) [9]
- C3905427 (127T) [9]
- C3901774 (159T) [9]
- C3902127 (138T) [9]



1) **Top Gasket Set**
- C3802363

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3921394

4) **Oil Pan Gasket**
- C3931346 [7]

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 [9]

9) **Front Gear Housing**
- C3931382 [9]
- C5267783 [9]

1) **Bushing, Piston**
- C4891178 x6

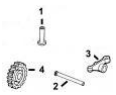
2) **Bushing, Cam**
- C3901306 x1 [3]

3) **Bolt, Con Rod**
- C3900919
- C4891179

4) **Con Rod**
- C3901569 [8]
- C4943979 [8]

5) **Bolt, Ex Manifold**
- C3944593 [11]
- C3944655 [12]

6) **Spacer, Ex Manifold**
- C3945252



1) **Tappet**
- C3925031

2) **Push Rod**
- C3904679

3) **Rocker Arms**
- C3910811 x6
- C3910810 x6

4) **Camshaft Gear**
- C3907431

Guide, Valve
- C3904408 Thick 60.50 mm IN
- C3904409 Thick 51.75 mm EX
- C3906206 Thin Wall [1]

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3900276 x12

2) **Seal, Valve**
- C3921640 x12 [5]
- C3957912 x12 [6]

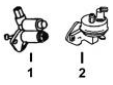
3) **Retainer, Valve**
- C3900299 x12 [5]

1) **Water Pump**
- C3286277

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203



1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 [2]

1) **Cylinder Head**
- C3913381 [13] [4]

2) **Head Bolt Kit**
- C6B-HBK

3) **Block Exp Plug Kit**
- C6BEXPK
- C6BEXPKS

1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Can be Used on both Intake and Exhaust.

(2): Diaphragm Style.

(3): For Storm blocks use C3940059.

(4): Do not use on Marine Engines.

(5): For use on engines prior to April, 2003.

(6): For use on engines from April, 2003, (Top Hat Style).

(7): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket..

(8): C3901569 Machine Split Rod. C4943979 Fracture Split Rod.

(9): Check for proper application.

(10): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw.

(13): Machined for 7mm nozzles.

Engine Series:
ISB

Engine Model:
6BTA 5.9 ISB

Engine Data:
24 VALVE
359 Cubic Inch

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102.108 mm
Stroke: 4.72 in / 119.888 mm

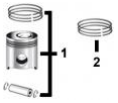
Piston (M):
6153

Please see page **642** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK0781/6 Std
- COK0784/6 0.50 mm
- COK0785/6 1.00 mm

2) **O/H Kit Fractured Rod** 8
- COK0781F/6 Std
- COK0784F/6 0.50
- COK0785F/6 1.00

3) **Engine I/F Kit**
- CIK0781/6 Std
- CIK0784/6 0.50 mm
- CIK0785/6 1.00 mm
- SPEC SHEET - 6BTA 5.9 ISB



1) **Piston & Ring Kit**
- C3800781 Std
- C3800784 0.50 mm
- C3800785 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing 8
- C4893693 Std
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

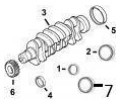
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3946153 Piston Std, 1 C3804990 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3946156 Piston 0.50 mm, 1 C3806201 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3946157 Piston 1.00 mm, 1 C3806203 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

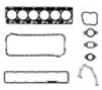
3) **Crankshaft**
- C3944243 7
- C3907804 7

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3926126

6) **Crankshaft, Gear**
- C3929027

7) **Ring Gear**
- C3903309 (173T) 7
- C3905427 (127T) 7
- C3901774 (159T) 7
- C3902127 (138T) 7



1) **Top Gasket Set**
- C4090035

2) **Bottom Gsk Set**
- C3800487

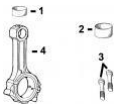
3) **Head Gasket**
- C3977063

4) **Oil Pan Gasket**
- C3931346 4

5) **Valve Cover Gsk**
- C3935878

6) **Gear Housing Gsk**
- C3940182

7) **Gear Cover Gasket**
- C3918673 7

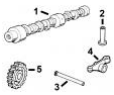


1) **Bushing, Piston**
- C4891178 x6

2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C3900919 x12

4) **Con Rod**
- C3901569 5
- C4943979 6



1) **Camshaft**
- C3942567

2) **Tappet**
- C3942565

3) **Push Rod**
- C3941253

4) **Rocker Arms**
- C3941927 x6
- C3941928 x6

5) **Camshaft Gear**
- C3942755

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940735HP x1 - Nitrided Valve 9

2) Insert, Valve
- C3927068
- Use 12

1) Exhaust, Valve Kit
- C3802967 Kit

Consists of:
- C3940734 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940734HP x1 - Nitrided Valve 9

2) Insert, Valve
- C3940139
- Use 12

1) Spring, Valve
- C3943161 x24

2) Seal, Valve
- C3942989 x12
- C3945438 x12

3) Retainer, Valve
- C3943198 x24

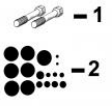
1) **Water Pump**
- C3286278 2

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3967195

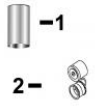
Pump, Oil
- C4939587 3
- C3926203 7

1) **Lift Pump**
- C3945812



1) **Head Bolts**
- C3927063 x26

2) **Block Exp Plug Kit**
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Include Crankshaft Gear C3929027.

(2): With Hardened Pulley.

(3): With Helical Gears.

(4): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket.

(5): Machine split connecting rod.

(6): Fracture split connecting rod.

(7): Check for proper application.

(8): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(9): Engineered for high wear resistance and low friction, providing superior fatigue strength and corrosion protection for an extended service life.

CUMMINS 6BTA 5.9 ISB PISTON (M): 6050

Engine Series:
ISB

Engine Model:
6BTA 5.9 ISB

Engine Data:
24 VALVE
359 Cubic Inch

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102.108 mm
Stroke: 4.72 in / 119.888 mm

Piston (M):
6050

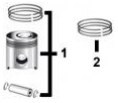
Cummins CPL's
2415
2495
2906
2907
8034
8035

1) **Engine O/H Kit**
- COK0838/6 Std
- COK0841/6 0.50 mm
- COK0842/6 1.00 mm

2) **O/H Kit Fractured Rod**
- COK0838F/6 Std 8
- COK0841F/6 0.50 mm 8
- COK0842F/6 1.00 mm 8

3) **Engine I/F Kit**
- CIK0838/6 Std
- CIK0841/6 0.50 mm
- CIK0842/6 1.00 mm

4) **I/F Kit Fractured Rod**
- CIK0838F/6 Std 8
- CIK0841F/6 0.50 mm 8
- CIK0842F/6 1.00 mm 8
- SPEC SHEET - 6BTA 5.9 ISB



1) **Piston & Ring Kit**
- C3800838 Std
- C3800841 0.50 mm
- C3800842 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 8
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

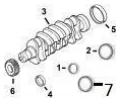
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3946050 Piston Std, 1 C3804990 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.

2) 1 C3946053 Piston 0.50 mm, 1 C3806201 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.

3) 1 C3946054 Piston 1.00 mm, 1 C3806203 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

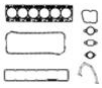
3) **Crankshaft**
- C3944243 1

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3926126

6) **Crankshaft, Gear**
- C3929027

7) **Ring Gear**
- C3903309 (173T) 7
- C3905427 (127T) 7
- C3901774 (159T) 7
- C3902127 (138T) 7



1) **Top Gasket Set**
- C4090035

2) **Bottom Gsk Set**
- C3800487

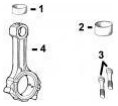
3) **Head Gasket**
- C3977063

4) **Oil Pan Gasket**
- C3931346 4

5) **Valve Cover Gsk**
- C3935878

6) **Gear Housing Gsk**
- C3940182

7) **Gear Cover Gasket**
- C3918673 7

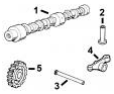


1) **Bushing, Piston**
- C4891178 x6

2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C3900919 x12

4) **Con Rod**
- C3901569 5
- C4943979 6



1) **Camshaft**
- C3942567

2) **Tappet**
- C3942565

3) **Push Rod**
- C3941253

4) **Rocker Arms**
- C3941927 x6
- C3941928 x6

5) **Camshaft Gear**
- C3942755

1) **Intake, Valve Kit**
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940735HP x1 - Nitrided Valve 9

2) **Insert, Valve**
- C3927068

Use 12

1) **Exhaust, Valve Kit**
- C3802967 Kit

Consists of:
- C3940734 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940734HP x1 - Nitrided Valve 9

2) **Insert, Valve**
- C3940139

Use 12

1) **Spring, Valve**
- C3943161 x24

2) **Seal, Valve**
- C3942989 x12
- C3945438 x12

3) **Retainer, Valve**
- C3943198 x24

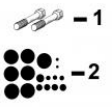
1) **Water Pump**
- C3286278 2

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3967195

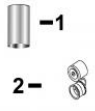
Pump, Oil
- C4939587 3
- C3926203 7

1) **Lift Pump**
- C3945812



1) **Head Bolts**
- C3927063 x26

2) **Block Exp Plug Kit**
- C6BEXPKS



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): Include Crankshaft Gear C3929027.

(2): With Hardened Pulley.

(3): With Helical Gears.

(4): Applications with internally cast oil suction tube in Aluminum oil pan, mus use 3938161 oil pan gasket.

(5): Machine split connecting rod.

(6): Fracture split connecting rod.

(7): Check for proper application.

(8): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(9): Engineered for high wear resistance and low friction, providing superior fatigue strength and corrosion protection for an extended service life.

Engine Series:
ISB

Engine Model:
6BTA 5.9 ISB

Engine Desc:
ISB 235-250

Engine Data:
24 Valve Front Gear Train (FGT) HPCR Fuel System

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm
Stroke: 4.72 in / 120 mm

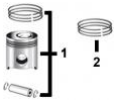
Piston (M):
8675

Cummins CPL's
2624
8212
8218
8223
8224
8226
8410
8412

Dodge Truck, Ram 2500-3500 Non-HO Engine
2003-2004

1) **Engine O/H Kit**
- COK9260/6 Std
- COK9185/6 0.50 mm

2) **Engine I/F Kit**
- CIK9260/6 STD
- CIK9185/6 .50MM
- SPEC SHEET - 6BTA 5.9 ISB



1) **Piston & Ring Kit**
- C4089260 Std
- C4089185 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

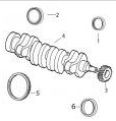
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3958675 Piston Std, 1 C4089258 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3949843 Piston 0.50 mm, 1 C4089181 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



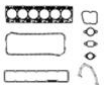
1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4980462 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



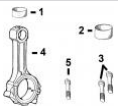
1) **Top Gasket Set**
- C4089819 4

2) **Bottom Gasket Set**
- C4089173 5

3) **Head Gasket**
- C3958644 1.18MM
- C3958645 1.25MM

4) **Oil Pan Gasket**
- C3958165

5) **Valve Cover Gasket**
- C3954324



1) **Bushing, Piston Pin**
- C4891178 x6

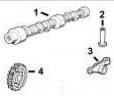
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2

6) **Exhaust Stud**
- C3944655



1) **Camshaft**
- C3947007

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**

5) **Push Rod**
- C3941253

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943449

Use 12

1) Exhaust, Valve Kit
- C4955210 Kit

Consists of:
- C3968183 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943450

Use 12

1) Valve Spring
- C4936080 x24

2) Seal, Valve
- C3955393 x24

3) Retainer, Valve
- C3943198 x24

1) **Water Pump**
- C2881804

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C4090093

1) **Oil Pump**
- C4988801 6 1

2) **Fuel Injector**
- C3949619 1

3) **Turbocharger**
- C4089797 1

4) **Repair Sleeve**
- C3904166

1) **Cylinder Head**
- C5282703 1
- C5282703UF 7

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 1

(1): Check application for proper usage.

(2): C3944593 is a flanged head cap screw. If a studded flange cap screw is needed, please order C3944655.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Contains C3958645 head gasket.

(5): Includes front and rear crankshaft seals.

(6): Fits Chrysler/Dodge applications only.

(7): Bare head

CUMMINS 5.9 ISB, RGT, 8675

Engine Series:
ISB

Engine Model:
6BTA 5.9 ISB

Engine Desc:
ISB 215-235

Engine Data:
24 Valve
Rear Gear Train (RGT)
HPCR Fuel System

Engine Info:
6 Cyl

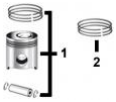
Engine Dimensions:
Bore: 4.02 in / 102 mm
Stroke: 4.72 in / 120 mm

Piston (M):
8675

Cummins CPL's
8136

1) **Engine O/H Kit**
- COK9260/6RGT Std
- COK9185/6RGT 0.50 mm

2) **Engine I/F Kit**
- CIK9260/6RGT STD
- CIK9185/6RGT .50MM
- SPEC SHEET - 6BTA 5.9 ISB



1) **Piston & Ring Kit**
- C4089260 Std
- C4089185 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

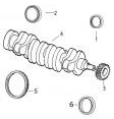
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3958675 Piston Std, 1 C4089258 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3949843 Piston 0.50 mm, 1 C4089181 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



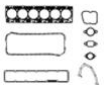
1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4896766 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



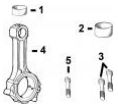
1) **Top Gasket Set**
- C4089263 4

2) **Bottom Gasket Set**
- C4089264 5

3) **Head Gasket**
- C3958644 1.18MM
- C3958645 1.25MM

4) **Oil Pan Gasket**
- C3959797

5) **Valve Cover Gasket**
- C3954324



1) **Bushing, Piston Pin**
- C4891178 x6

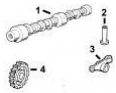
2) **Bushing, Cam**
- C3940059 x2

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2

6) **Exhaust Stud**
- C3944655



1) **Camshaft**
- C3979506

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**

5) **Push Rod**
- C3941253

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943449

Use 12

1) Exhaust, Valve Kit
- C4955210 Kit

Consists of:
- C3968183 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943450

Use 12

1) Valve Spring
- C4936080 x24

2) Seal, Valve
- C3955393 x24

3) Retainer, Valve
- C3943198 x24

1) **Water Pump**
- C3800984

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708

1) **Oil Pump**
- C3971544 1

2) **Fuel Injector**
- C3949619 1

3) **Turbocharger**

4) **Repair Sleeve**
- C3904166

1) **Cylinder Head**
- C5282703 1
- C5282703UF 6

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 1

(1): Check application for proper usage.

(2): C3944593 is a flanged head cap screw. If a studded flange cap screw is needed, please order C3944655.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Contains C3958645 head gasket.

(5): Includes front and rear crankshaft seals.

(6): Bare head

Engine Series:
ISB

Engine Model:
6BT 5.9 ISB

Engine Desc:
ISB 305

Engine Data:
24 Valve
Front Gear Train (FGT)
HPCR Fuel System

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm
Stroke: 4.72 in / 120 mm

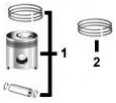
Piston (M):
5497, 9808

Cummins CPL's
2998
8213
8228
8464
8716
8732

Dodge Truck, Ram 2500-3500
2003-2004

1) **Engine O/H Kit**
- COK9950/6 Std
- COK9976/6 0.50 mm

2) **Engine I/F Kit**
- CIK9950/6 STD
- CIK9976/6 .50MM



1) **Piston & Ring Kit**
- C4089950 Std
- C4089976 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

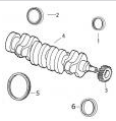
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3965497 Piston Std, 1 C4089258 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706Ret.

2) 1 C3966675 Piston 0.50 mm, 1 C4089181 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



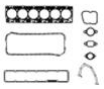
1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4980462 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



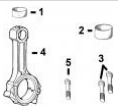
1) **Top Gasket Set**
- C4089819 4

2) **Bottom Gasket Set**
- C4089173 5

3) **Head Gasket**
- C3958644 1.18MM
- C3958645 1.25MM

4) **Oil Pan Gasket**
- C3958165

5) **Valve Cover Gasket**
- C3954324



1) **Bushing, Piston Pin**
- C4891178 x6

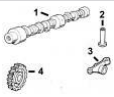
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2

6) **Exhaust Stud**
- C3944655



1) **Camshaft**
- C3947007

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**

5) **Push Rod**
- C3941253

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943449

Use 12

1) Exhaust, Valve Kit
- C4955210 Kit

Consists of:
- C3968183 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943450

Use 12

1) Valve Spring
- C4936080 x24

2) Seal, Valve
- C3955393 x24

3) Retainer, Valve
- C3943198 x24

1) **Water Pump**
- C2881804 1

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C4090093 1

1) **Oil Pump**
- C4988801 6 1

2) **Fuel Injector**
- C3964273 1

3) **Turbocharger**
- C3599891 1

1) **Cylinder Head**
- C5282703 1
- C5282703UF 7

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 1

(1): Check application for proper usage.

(2): C3944593 is a flanged head cap screw. If a studded flange cap screw is needed, please order C3944655.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Contains C3958645 head gasket.

(5): Contains front and rear crankshaft seals.

(6): Fits Chrysler/Dodge applications only

(7): Bare head

CUMMINS 5.9 ISB, RGT, 5497

Engine Series:
ISB

Engine Model:
6BT 5.9 ISB

Engine Desc:
ISB

Engine Data:
24 Valve
Rear Gear Train (RGT)
HPCR Fuel System

Engine Info:
6 Cyl

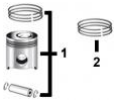
Engine Dimensions:
Bore: 4.02 in / 102 mm
Stroke: 4.72 in / 120 mm

Piston (M):
5497, 9808

Cummins CPL's
8123
8134
8135
8416

1) **Engine O/H Kit**
- COK9950/6RGT Std
- COK9976/6RGT 0.50 mm

2) **Engine I/F Kit**
- CIK9950/6RGT STD
- CIK9976/6RGT .50MM



1) **Piston & Ring Kit**
- C4089950 Std
- C4089976 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

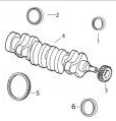
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3965497 Piston Std, 1 C4089258 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706Ret.

2) 1 C3966675 Piston 0.50 mm, 1 C4089181 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.



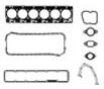
1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4896766 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



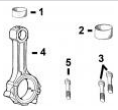
1) **Top Gasket Set**
- C4089263 4

2) **Bottom Gasket Set**
- C4089264 5

3) **Head Gasket**
- C3958644 1.18MM
- C3958645 1.25MM

4) **Oil Pan Gasket**
- C3959797

5) **Valve Cover Gasket**
- C3954324



1) **Bushing, Piston Pin**
- C4891178 x6

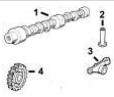
2) **Bushing, Cam**
- C3940059 x2

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593

6) **Exhaust Stud**
- C3944655



1) **Camshaft**
- C3979506

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**

5) **Push Rod**
- C3941253

1) **Intake, Valve Kit**
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943449

Use 12

1) **Exhaust, Valve Kit**
- C4955210 Kit

Consists of:
- C3968183 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943450

Use 12

1) **Valve Spring**
- C4936080 x24

2) **Seal, Valve**
- C3955393 x24

3) **Retainer, Valve**
- C3943198 x24

1) **Water Pump**
- C3800984

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708

1) **Oil Pump**
- C3971544 1

2) **Fuel Injector**

3) **Turbocharger**

1) **Cylinder Head**
- C5282703 1
- C5282703UF 6

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 1

(1): Check application for proper usage.

(2): C3944593 is a flanged head cap screw. If a studded flange cap screw is needed, please order 3944655 from an OE Cummins dealer

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Contains C3958645 head gasket.

(5): Contains front and rear crankshaft seals.

(6): Bare head

CUMMINS 5.9 ISB, FGT, 0192

Engine Series:
ISB

Engine Model:
6BTA 5.9 ISB

Engine Desc:
ISB 325

Engine Data:
24 Valve
Front Gear Train (FGT)
HPCR Fuel System

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.02 in / 102 mm
Stroke: 4.72 in / 120 mm

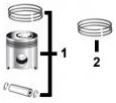
Piston (M):
0192

Cummins CPL's
1000
1083
1091
1095
8344
8345
8346
8347
8348
8349
8350
8351
8421
8422
8423
8424

Dodge Truck, Ram 2500-3500
2004.5-2007

1) **Engine O/H Kit**
- COK9669/6 Std
- COK9670/6 0.50 mm
- COK9671/6 1.00 mm

2) **Engine I/F Kit**
- CIK9669/6 STD
- CIK9670/6 .50 mm
- CIK9671/6 1.0 mm
- SPEC SHEET - 6BTA 5.9 ISB



1) **Piston & Ring Kit**
- C4089669 Std
- C4089670 0.50 mm
- C4089671 1.0 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

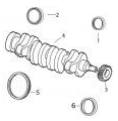
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3970192 Piston Std, 1 C4089258 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3970126 Piston 0.50 mm, 1 C4089181 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.

3) 1 C3970127 Piston 1.0 mm, 1 C4089182 Ring Set 1.0 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



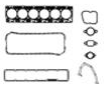
1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4980462 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



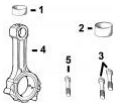
1) **Top Gasket Set**
- C4089819 4

2) **Bottom Gasket Set**
- C4089173 5

3) **Head Gasket**
- C3958644 1.18MM
- C3958645 1.25MM

4) **Oil Pan Gasket**
- C3958165

5) **Valve Cover Gasket**
- C3954324



1) **Bushing, Piston Pin**
- C4891178 x6

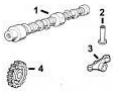
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2

6) **Exhaust Stud**
- C3944655



1) **Camshaft**
- C3947007

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**

5) **Push Rod**
- C3941253

1) **Intake, Valve Kit**
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943449

Use 12

1) **Exhaust, Valve Kit**
- C4955210 Kit

Consists of:
- C3968183 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943450

Use 12

1) **Valve Spring**
- C4936080 x24

2) **Seal, Valve**
- C3955393 x24

3) **Retainer, Valve**
- C3943198 x24

1) **Water Pump**
- C2881804

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C4090093

1) **Oil Pump**
- C4988801 6 1

2) **Fuel Injector**
- C3972888 1

3) **Turbocharger**
- C4089797 1

4) **Repair Sleeve**
- C3904166

1) **Cylinder Head**
- C5282703 1
- C5282703UF 7

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 1

(1): Check application for proper usage.

(2): C3944593 is a flanged head cap screw. If a studded flange cap screw is needed, please order C3944655

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Contains C3958645 head gasket.

(5): Includes front and rear crankshaft seals.

(6): Fits Chrysler/Dodge applications only.

(7): Bare head

CUMMINS 4BT 3.9 QSB PISTON (M): 7416

Engine Series:
QSB

Engine Model:
4BT 3.9 QSB

Engine Data:
8 VALVE TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.02 in / 102.108 mm
Stroke: 4.72 in / 119.888 mm

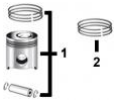
Piston (M):
7416

Cummins CPL's
8039
8239
8240
8334
8335
8507
43850
44247
8238

1) **Engine O/H Kit**
- COK9461/4 Std
- COK9618/4 0.50 mm
- COK9619/4 1.00 mm

2) **O/H Kit Fractured Rod** 1
- COK9461F/4 Std
- COK9618F/4 0.50
- COK9619F/4 1.00

3) **Engine I/F Kit**
- CIK9461/4 Std
- CIK9618/4 0.50 mm
- CIK9619/4 1.00 mm
- SPEC SHEET - 4BT 3.9 QSB



1) **Piston & Ring Kit**
- C4089461 Std
- C4089618 0.50 mm
- C4089619 1.00 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing 1
- C4893693 Std
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

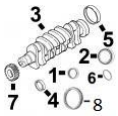
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3957416 Piston Std, 1 C4089460 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3957417 Piston 0.50 mm, 1 C4089614 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.

3) 1 C3957418 Piston 1.00 mm, 1 C4089615 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9

1) **Top Gasket Set**
- C4089648

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 9

1) **Bushing, Piston**
- C4891178 x4

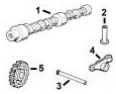
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C3900919 x8 6
- C4891179 x8 7

4) **Con Rod**
- C3901569 6
- C4943979 7

5) **Bolt, Ex Manifold**
- C3944593 10
- C3944655 11

6) **Spacer, Ex. Manifold**
- C3945252



1) **Camshaft**
- C3925582 8

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431 8

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick W. 60.50 mm IN
- C3904409 Thick W. 51.75 mm EX
- C3906206 Thin Wall 3

1) Intake, Valve Kit
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) Insert, Valve
- C3906854

Use 4

1) Exhaust, Valve Kit
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) Insert, Valve
- C3904105

Use 4

1) Spring, Valve
- C3932453 x8

2) Seal, Valve
- C3921640 x8 4
- C3957912 x8 5

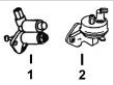
3) Retainer, Valve
- C3900299 x8 4

1) **Water Pump**
- C3286278

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

Pump, Oil
- C3926202

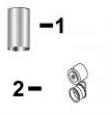


1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 3

1) **Cylinder Head**
- C3966448

2) **Head Bolt Kit**
- C4B-HBK



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): On Fracture Split Con Rods use: C3901170 x4 (or O/S) and C4893693 x4 (or O/S).

(2): Can be Used on Both Intake and Exhaust.

(3): Diaphragm Style.

(4): For use on engines from April 2003, (Top Hat Style Valve Stem Seal).

(5): For use on engines from April 2003, (Top Hat Style Valve Stem Seal).

(6): Machine split connecting rod.

(7): Fracture split connecting rod.

(8): Use ESN or application model to confirm correct Camshaft & Gear.

(9): Check for proper application.

(10): Flanged Head Cap Screw.

(11): Studded Flange Cap Screw.

CUMMINS 4BT 3.9 QSB PISTON (M): 7795

Engine Series:
QSB

Engine Model:
4BT 3.9 QSB

Engine Data:
8 VALVE TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.02 in / 102.108 mm
Stroke: 4.72 in / 119.888 mm

Piston (M):
7795

Komatsu
WA150-5 - Wheel Loader
WA150PZ-5 - Wheel Loader

Cummins CPL's
2943
8058
8148
8149
8337
8492

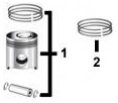
Komatsu
SAA4D102E-2B - ESN 26277757-UP

1) **Engine O/H Kit**
- COK7797/4 Std
- COK7799/4 0.50 mm

2) **O/H Kit Fractured Rod** 1
- COK7797F/4 Std
- COK7799F/4 0.50

3) **Engine I/F Kit**
- CIK7797/4 Std
- CIK7799/4 0.50 mm

4) **Engine I/F Kit Fractured Rod**
- CIK7797F/4 Std
- CIK7799F/4 .50mm
- SPEC SHEET - 4BT 3.9 QSB



1) **Piston & Ring Kit**
- C3957797 Std
- C3957799 0.50 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

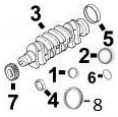
Fractured Con Rod Bearing 1
- C4893693 Std
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3957795 Piston Std, 1 C3938177 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3957798 Piston 0.50 mm, 1 C3938197 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907803

4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 9
- C3905427 (127T) 9
- C3901774 (159T) 9
- C3902127 (138T) 9

1) **Top Gasket Set**
- C4089648

2) **Bottom Gsk Set**
- C3802375

3) **Head Gasket**
- C3921393

4) **Oil Pan Gasket**
- C3931602

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3916131

7) **Rear Cover Gsk**
- C3928493

8) **Gear Cover Gasket**
- C3918673 9

1) **Bushing, Piston**
- C4891178 x4

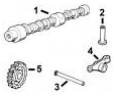
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C3900919 x8 6
- C4891179 x8 7

4) **Con Rod**
- C3901569 6
- C4943979 7

5) **Bolt, Ex Manifold**
- C3944593 10
- C3944655 11

6) **Spacer, Ex. Manifold**
- C3945252



1) **Camshaft**
- C3925582 8

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x4
- C3910810 x4

5) **Camshaft Gear**
- C3907431 8

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick W. 60.50 mm IN
- C3904409 Thick W. 51.75 mm EX
- C3906206 Thin Wall 3

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 4

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 4

1) **Spring, Valve**
- C3932453 x8

2) **Seal, Valve**
- C3921640 x8 4
- C3957912 x8 5

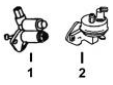
3) **Retainer, Valve**
- C3900299 x8 4

1) **Water Pump**
- C3286278

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

Pump, Oil
- C3926202



1) **Lift Pump**
- C3918000

2) **Lift Pump**
- C3904374 3

1) **Cylinder Head**
- C3966448

2) **Head Bolt Kit**
- C4B-HBK

1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): On Fracture Split Con Rods use: C3901170 x4 (or O/S) and C4893693 x4 (or O/S).

(2): Can be Used on Both Intake and Exhaust.

(3): Diaphragm Style.

(4): For use on engines from April 2003, (Top Hat Style Valve Stem Seal).

(5): For use on engines from April 2003, (Top Hat Style Valve Stem Seal).

(6): Machine split connecting rod.

(7): Fracture split connecting rod.

(8): Use ESN or application model to confirm correct Camshaft & Gear.

(9): Check for proper application.

(10): Flanged Head Cap Screw.

(11): Studded Flange Cap Screw.

Engine Series:
QSB

Engine Model:
4BT 4.5 QSB

Engine Data:
16 VALVE

Engine Info:
4 Cyl

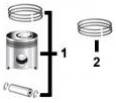
Engine Dimensions:
CM850 Bore: 4.21 in / 107 mm Stroke: 4.88 in / 124 mm

Please see page **643** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK5160/4 Std
- COK5481/4 0.50 mm

2) **O/H Kit Fractured Rod**
- COK5160F/4 Std 3
- COK5481F/4 0.50

3) **Engine I/F Kit**
- CIK5160/4 Std
- CIK5481/4 0.50 mm
- SPEC SHEET - 4BT 4.5 QSB



1) **Piston & Ring Kit**
- C4955160 Std
- C4955481 0.50 mm

Use 4

Main Bearing Set
- C3802010 Std
- C3802011 0.25 mm
- C3802012 0.50 mm
- C3802013 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

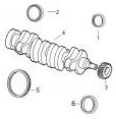
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C4934860 Piston Std, 1 C4955251 Ring Set Std, 1 C4931041 Piston Pin, 2 C3920691 Ret.

2) 1 C4934816 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.



1) **Front Seal**
- C4890832

2) **Rear Seal**
- C4955372

3) **Crankshaft, Gear**
- C3955151

4) **Crankshaft**
- C3974539 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1

1) **Top Gasket Set**
- C4955356

2) **Bottom Gsk Set**
- C4955357

3) **Head Gasket**
- C4932209

4) **Oil Pan Gasket**
- C4939246

5) **Valve Cover Gsk**
- C4899228

1) **Bushing, Piston**
- C4891178 x4

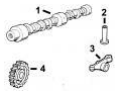
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C4891179 x8

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2
- C3944655 4

6) **Spacer, Ex. Manifold**
- C3945252



1) **Camshaft**
- C3977547

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3942734 x4
- C3942735 x4

4) **Camshaft Gear**
- C3955152

5) **Camshaft Key**
- C3902332

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940735HP x1 - Nitrided Valve 5

2) Insert, Valve
- C3943449

Use 8

1) Exhaust, Valve Kit
- C3802967 Kit

Consists of:
- C3940734 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940734HP x1 - Nitrided Valve 5

2) Insert, Valve
- C3943450

Use 8

1) Spring, Valve
- C4936080 x16

2) Seal, Valve
- C3955393 x16

3) Retainer, Valve
- C3943198 x16

1) **Water Pump**
- C3800984

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708

1) **Oil Pump**
- C4939586

2) **Fuel Injector**
- C3976372 1

3) **Repair Sleeve**
- C4919951

1) **Cylinder Head**
- C4941496 1

2) **Head Bolt**
- C3927063 x18

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3914086

(1): Check application for proper usage.

(2): Flanged Head Cap Screw.

(3): On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(4): Studded Flange Cap Screw.

(5): Engineered for high wear resistance and low friction, providing superior fatigue strength and corrosion protection for an extended service life.

CUMMINS 6BT 5.9 QSB PISTON (M): 7416

Engine Series:
QSB

Engine Model:
6BT 5.9 QSB

Engine Data:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch
Bore: 4.02 in / 102.108 mm
Stroke: 4.72 in / 119.888 mm

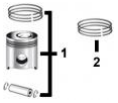
Piston (M):
7416

Please see page **644** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK9461/6 Std
- COK9618/6 0.50 mm
- COK9619/6 1.00 mm

2) **O/H Kit Fractured Rod** 1
- COK9461F/6 Std
- COK9618F/6 0.50
- COK9619F/6 1.00

3) **Engine I/F Kit**
- CIK9461/6 Std
- CIK9618/6 0.50 mm
- CIK9619/6 1.00 mm
- SPEC SHEET - 6BT 5.9 QSB



Piston & Ring Kit
- C4089461 Std
- C4089618 0.50 mm
- C4089619 1.00 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing 1
- C4893693 Std
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

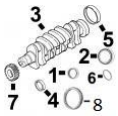
Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3957416 Piston Std, 1 C4089460 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3957417 Piston 0.50 mm, 1 C4089614 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.

3) 1 C3957418 Piston 1.00 mm, 1 C4089615 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

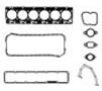
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 10
- C3905427 (127T) 10
- C3901774 (159T) 10
- C3902127 (138T) 10



1) **Top Gasket Set**
- C4089649

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3283335

4) **Oil Pan Gasket**
- C3931346

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3938156

7) **Gear Cover Gasket**
- C3918673 10

1) **Bushing, Piston**
- C4891178 x6

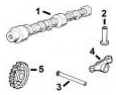
2) **Bushing, Cam**
- C3940059 x1 4

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C3901569 8
- C4943979 9

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick W. 60.50 mm IN
- C3904409 Thick W. 51.75 mm EX
- C3906206 Thin Wall 2

1) Intake, Valve Kit
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) Insert, Valve
- C3906854

Use 6

1) Exhaust, Valve Kit
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) Insert, Valve
- C3904105

Use 6

1) Spring, Valve
- C3932453 x12

2) Seal, Valve
- C3921640 x12 6
- C3957912 x12 7

3) Retainer, Valve
- C3900299 x12 6

1) **Water Pump**
- C3286278

2) **Water Pump Seal**
- C3906698

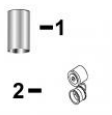
3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C4939587

1) **Lift Pump**
- C3904374 3

1) **Cylinder Head**
- C3913381 13 5

2) **Head Bolt Kit**
- C6B-HBK



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): On Fracture Split Con Rods use: C3901170 x6 (or O/S) and C4893693 x6 (or O/S).

(2): Can be Used on Both Intake and Exhaust.

(3): Diaphragm Style.

(4): For Storm blocks use C3940059.

(5): Do not use on Marine Engines.

(6): For use on engines prior to April, 2003.

(7): For use on engines from April 2003, (Top Hat Style Valve Stem Seal).

(8): Machine Split Connectin Rod.

(9): Franture Split Connectin Rod.

(10): Check for proper application.

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw

(13): Machined for 7mm nozzles.

CUMMINS 6BT 5.9 QSB PISTON (M): 7795

Engine Series:
QSB

Engine Model:
6BT 5.9 QSB

Engine Data:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
359 Cubic Inch
Bore: 4.02 in / 102.108 mm
Stroke: 4.72 in / 119.888 mm

Piston (M):
7795

Komatsu
PC220-7 - Excavator
PC220LC-7 - Excavator
PC220LL-7L - Excavator
WA200-5 - Wheel Loader
WA200PT-5 - Wheel Loader
WA250-5 - Wheel Loader
WA250PT-5 - Wheel Loader
WA250PZ-5 - Wheel Loader
WA320-5L - Wheel Loader

Cummins CPL's
2678
2846
8105
8111
8265
8266
8267
8483
8604

Komatsu
SAA6D102E-2 - ESN 26474903- UP

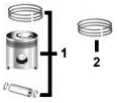
1) **Engine O/H Kit**
- COK7797/6 Std
- COK7799/6 0.50 mm

2) **O/H Kit Fractured Rod**
- COK7797F/6 Std
- COK7799F/6 0.50

1

3) **Engine I/F Kit**
- CIK7797/6 Std
- CIK7799/6 0.50 mm

4) **Engine I/F Kit Fractured Rod**
- CIK7797F/6 Std
- CIK7799F/6 .50mm
- SPEC SHEET - 6BT 5.9 QSB



Piston & Ring Kit
- C3957797 Std
- C3957799 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

Fractured Con Rod Bearing
- C4893693 Std
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

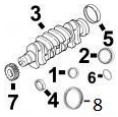
1

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C3957795 Piston Std, 1 C3938177 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.

2) 1 C3957798 Piston 0.50 mm, 1 C3938197 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.



1) **Front Seal**
- C3904353

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3907804

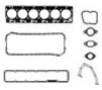
4) **Front Seal Sleeve**
- C3906080

5) **Rear Seal Sleeve**
- C3906081

6) **Rectangular Seal**
- C3912473

7) **Crankshaft, Gear**
- C3901258

8) **Ring Gear**
- C3903309 (173T) 10
- C3905427 (127T) 10
- C3901774 (159T) 10
- C3902127 (138T) 10



1) **Top Gasket Set**
- C4089649

2) **Bottom Gsk Set**
- C3802376

3) **Head Gasket**
- C3283335

4) **Oil Pan Gasket**
- C3931346

5) **Valve Cover Gsk**
- C3902666

6) **Gear Housing Gsk**
- C3938156

7) **Gear Cover Gasket**
- C3918673 10

1) **Bushing, Piston**
- C4891178 x6

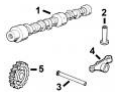
2) **Bushing, Cam**
- C3940059 x1 4

3) **Bolt, Con Rod**
- C3900919 x12 8
- C4891179 x12 9

4) **Con Rod**
- C3901569 8
- C4943979 9

5) **Bolt, Ex Manifold**
- C3944593 11
- C3944655 12

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3914639

2) **Tappet**
- C3925031

3) **Push Rod**
- C3904679

4) **Rocker Arms**
- C3910811 x6
- C3910810 x6

5) **Camshaft Gear**
- C3907431

6) **Camshaft Key**
- C3902332

Guide, Valve
- C3904408 Thick W. 60.50 mm IN
- C3904409 Thick W. 51.75 mm EX
- C3906206 Thin Wall 2

1) **Intake, Valve Kit**
- C3802355 Kit

Consists of:
- C3901117 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3906854

Use 6

1) **Exhaust, Valve Kit**
- C3802356 Kit

Consists of:
- C3901607 x1 Valve
- C3900250 x2 Collet

2) **Insert, Valve**
- C3904105

Use 6

1) **Spring, Valve**
- C3932453 x12

2) **Seal, Valve**
- C3921640 x12 6
- C3957912 x12 7

3) **Retainer, Valve**
- C3900299 x12 6

1) **Water Pump**
- C3286278

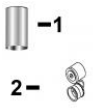
2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C3802273

1) **Pump, Oil**
- C3926203

1) **Cylinder Head**
- C3913381 13 5

2) **Head Bolt Kit**
- C6B-HBK



1) **Repair Sleeve**
- C3904166

2) **Belt Tensioner**
- C3914086

(1): On Fracture Split Con Rods use: C3901170 x6 (or O/S) and C4893693 x6 (or O/S).

(2): Can be Used on Both Intake and Exhaust.

(3): Diaphragm Style.

(4): For Storm blocks use C3940059.

(5): Do not use on Marine Engines.

(6): For use on engines prior to April, 2003.

(7): For use on engines from April 2003, (Top Hat Style Valve Stem Seal).

(8): Machine Split Connecting Rod.

(9): Fracture Split Connecting Rod.

(10): Check for proper application.

(11): Flanged Head Cap Screw.

(12): Studded Flange Cap Screw

(13): Machined for 7mm nozzles.

Engine Series:
QSB

Engine Model:
6BT 6.7 QSB

Engine Desc:
CM850

Engine Data:
24 VALVE REAR GEAR TRAIN

Engine Info:
6 Cyl

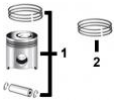
Engine Dimensions:
Bore: 4.21 in / 107 mm
Stroke: 4.88 in / 124 mm

Please see page **645** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK5160/6 Std
- COK5481/6 0.50 mm

2) **O/H Kit Fractured Rod**
- COK5160F/6 Std 3
- COK5481F/6 0.50

3) **Engine I/F Kit**
- CIK5160/6 Std
- CIK5481/6 0.50 mm
- SPEC SHEET - 6BT 6.7 QSB



1) **Piston & Ring Kit**
- C4955160 Std
- C4955481 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

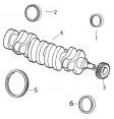
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C4934860 Piston Std, 1 C4955251 Ring Set Std, 1 C4931041 Piston Pin, 2 C3920691 Ret.

2) 1 C4934816 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.



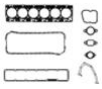
1) **Front Seal**
- C4890832

2) **Rear Seal**
- C4955372

3) **Crankshaft, Gear**
- C3955151

4) **Crankshaft**
- C4934862 1

5) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



1) **Top Gasket Set**
- C4955229

2) **Bottom Gsk Set**
- C4955230

3) **Head Gasket**
- C4932210

4) **Oil Pan Gasket**
- C3959797 5
- C4934344 6

5) **Valve Cover Gsk**
- C4899226

1) **Bushing, Piston**
- C4891178 x6

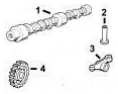
2) **Bushing, Cam**
- C3940059 x2

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2
- C3944655 4

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3979506

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3942734 x6
- C3942735 x6

4) **Camshaft Gear**
- C3955152

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940735HP x1 - Nitrided Valve 8

2) Insert, Valve
- C3943449

Use 12

1) Exhaust, Valve Kit
- C3802967 Kit

Consists of:
- C3940734 x1 Valve
- C3940123 x2 Collet

High Performance
- C3940734HP x1 - Nitrided Valve 8

2) Insert, Valve
- C3943450

Use 12

1) Spring, Valve
- C4936080 x24

2) Seal, Valve
- C3955393 x24

3) Retainer, Valve
- C3943198 x24

1) **Water Pump**
- C3800984 1
- C4955394 1

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708

1) **Oil Pump**
- C3971544

2) **Fuel Injector**
- C3976372 1

3) **Repair Sleeve**
- C4919951

1) **Cylinder Head**
- C5282703 1
- C5282703UF 7

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3914086 1

(1): Check application for proper usage.

(2): Flanged Head Cap Screw.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Studded Flange Cap Screw.

(5): Paper/composite material

(6): Rubber material

(7): Bare head

(8): Engineered for high wear resistance and low friction, providing superior fatigue strength and corrosion protection for an extended service life.

Engine Series:
ISB

Engine Model:
6BT 6.7 ISB

Engine Desc:
ISB07

Engine Data:
24 VALVE FRONT GEAR TRAIN

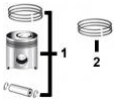
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.21 in / 107 mm
Stroke: 4.88 in / 124 mm

Please see page **646** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK5365/6 Std
- COK6007/6 0.50 mm

2) **Engine I/F Kit**
- CIK5365/6 STD
- CIK6007/6 .50MM
- SPEC SHEET - 6BT 6.7 ISB



1) **Piston & Ring Kit**
- C4955365 Std
- C4956007 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

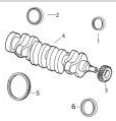
Fractured Con Rod Bearing
- C4893693 Std 3
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C4938619 Piston Std, 1 C4955366 Ring Set Std, 1 C4931041 Piston Pin, 2 C3920691 Ret.

2) 1 C4938620 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.



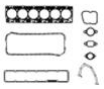
1) **Front Seal**
- C4890832

2) **Rear Seal**
- C4089342

3) **Crankshaft, Gear**

4) **Crankshaft**

5) **Ring Gear** 1
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1



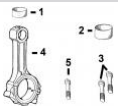
1) **Top Gasket Set**
- C4955354

2) **Bottom Gsk Set**
- C4955355 6

3) **Head Gasket**
- C4932210

4) **Oil Pan Gasket**
- C3958165

5) **Rocker Cover Gasket**
- C3963379



1) **Bushing, Piston Pin**
- C4891178 x6

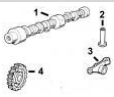
2) **Bushing, Cam**
- C3940059 x1

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979

5) **Bolt, Ex Manifold**
- C3944593 2
- C3944655 7

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
-

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**

5) **Push Rod**
- C3941253

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943449

Use 12

1) Exhaust, Valve Kit
- C4089672 Kit

Consists of:
- C3968183 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943450

Use 12

1) Valve Spring
- C4936080 x24

2) Seal, Valve
- C3955393 x24

3) Retainer, Valve
- C3943198 x24

1) **Water Pump**
- C2881804 1
- C4955394 1

2) **Water Pump Seal**
- C3906698

3) **Thermostat**

1) **Oil Pump**
- C4988801 1

2) **Fuel Injector**

3) **Turbocharger**
- C2882075 1
- C3787604 1

4) **Repair Sleeve**
- C4919951

1) **Cylinder Head**
- C5282703 1
- C5282703UF 8

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574

(1): Check application for proper usage.

(2): Flanged head cap screw

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): For front gear train (FGT) engines only

(5): For rear gear train (RGT) engines only

(6): Includes crank seals

(7): Studded cap screw

(8): Bare head

Engine Series:
ISB

Engine Model:
6BT 6.7 ISB

Engine Desc:
CM2150/2250

Engine Data:
24 VALVE FRONT & REAR GEAR TRAIN

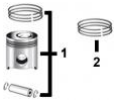
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.21 in / 107 mm
Stroke: 4.88 in / 124 mm

Please see page **647** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK5365/6RGT Std
- COK6007/6RGT 0.50 mm

2) **Engine I/F Kit**
- CIK5365/6RGT STD
- CIK6007/6RGT .50MM
- SPEC SHEET - 6BT 6.7 ISB



1) **Piston & Ring Kit**
- C4955365 Std
- C4956007 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

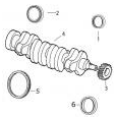
Fractured Con Rod Bearing
- C4893693 Std (3)
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C4938619 Piston Std, 1 C4955366 Ring Set Std, 1 C4931041 Piston Pin, 2 C3920691 Ret.

2) 1 C4938620 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.



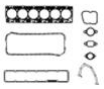
1) **Front Seal**
- C4890832

2) **Rear Seal**
- C3353978 (4)
- C4955372 (5)

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4934862 (9)

5) **Ring Gear**
- C3903309 (173T) (1)
- C3905427 (127T) (1)
- C3901774 (159T) (1)
- C3902127 (138T) (1)



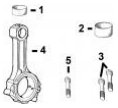
1) **Top Gasket Set**
- C4955523

2) **Bottom Gsk Set**
- C4955522 (6)

3) **Head Gasket**
- C4932210

4) **Oil Pan Gasket**
- C3959797 (1)
- C4934344 (1)

5) **Rocker Cover Gasket**
- C3963379



1) **Bushing, Piston Pin**
- C4891178 x6 (1)
- C5257363 x6 (1)

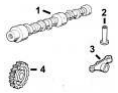
2) **Bushing, Cam**
- C3940059 x2

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C4943979 x6 (1)
- C5257364 x6 (1)

5) **Bolt, Ex Manifold**
- C3944593 (2)
- C3944655 (7)

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3979506 (9)

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**
- C3955152

5) **Push Rod**
- C3941253

1) **Intake, Valve Kit**
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943449

Use 12

1) **Exhaust, Valve Kit**
- C4089672 Kit

Consists of:
- 3968183 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943450

Use 12

1) **Valve Spring**
- C4936080 x24

2) **Seal, Valve**
- C3955393 x24

3) **Retainer, Valve**
- C3943198 x24

1) **Water Pump**
- C2881688 (1)
- C2881804 (1)
- C3800984 (1)
- C4955394 (1)

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708 (1)

1) **Oil Pump**
- C3971544 (9)
- C4988801 (8)

2) **Fuel Injector**

3) **Turbocharger**
- C2882075 (1)
- C3787604 (1)

4) **Repair Sleeve**
- C4919951

1) **Cylinder Head**
- C5282703 (1)
- C5282703UF (10)

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 (1)
- C5270678 (1)

(1): Check application for proper usage.

(2): Flanged head cap screw.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Single lip seal

(5): Double lip seal

(6): Lower gasket set includes crank seals. Rear seal is a single lip design. If double lip rear seal is needed, please order C4955372 separately.

(7): Studded cap screw

(8): Fits Chrysler front gear train (FGT) engines only

(9): Fits rear gear train (RGT) engines only

(10): Bare head

Engine Series:
ISB

Engine Model:
6BT 6.7 ISB

Engine Desc:
CM2350

Engine Data:
24 VALVE

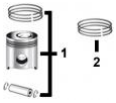
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.21 in / 107 mm
Stroke: 4.88 in / 124 mm

Please see page **648** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK5365/6A Std
- COK6007/6A 0.50 mm

2) **Engine I/F Kit**
- CIK5365/6A STD
- CIK6007/6A .50MM
- SPEC SHEET - 6BT 6.7 ISB



1) **Piston & Ring Kit**
- C4955365 Std
- C4956007 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

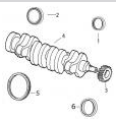
Fractured Con Rod Bearing
- C4893693 Std (3)
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C4938619 Piston Std, 1 C4955366 Ring Set Std, 1 C4931041 Piston Pin, 2 C3920691 Ret.

2) 1 C4938620 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.



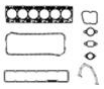
1) **Front Seal**
- C3904353 (1)
- C4890832 (1)

2) **Rear Seal**
- C3353978 (4)
- C4955372 (5)

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4934862 (9)

5) **Ring Gear**
- C3903309 (173T) (1)
- C3905427 (127T) (1)
- C3901774 (159T) (1)
- C3902127 (138T) (1)



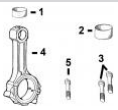
1) **Top Gasket Set**
- C4376090

2) **Bottom Gasket Set**
- C4376091 (6)

3) **Head Gasket**
- C4932210

4) **Oil Pan Gasket**
- C4337615 (1)
- C4934344 (1)

5) **Rocker Cover Gasket**
- C3963379



1) **Bushing, Piston Pin**
- C5257363 x6

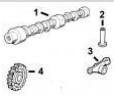
2) **Bushing, Cam**
- C3940059 x2

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C5257364

5) **Bolt, Ex Manifold**
- C3944593 (2)
- C3944655 (7)

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3979506 (1)
- C5263488 (1)

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**
- C3955152

5) **Push Rod**
- C3941253

1) **Intake, Valve Kit**
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943449

Use 12

1) **Exhaust, Valve Kit**
- C4089672 Kit

Consists of:
- 3968183 x1 Valve
- C3940123 x2 Collet

2) **Insert, Valve**
- C3943450

Use 12

1) **Valve Spring**
- C4936080 x24

2) **Seal, Valve**
- C3955393 x24

3) **Retainer, Valve**
- C3943198 x24

1) **Water Pump**
- C5314945 (8)
- C5473173 (9)
- C4955394 (1)

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708 (1)

1) **Oil Pump**
- C3971544 (9)
- C4988801 (8)

2) **Fuel Injector**

3) **Turbocharger**
- C3787604 (1)

4) **Repair Sleeve**
- C4919951

1) **Cylinder Head**
- C5282703 (1)
- C5282703UF (10)

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 (1)
- C5270678 (1)

(1): Check application for proper usage.

(2): Flanged head cap screw.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Single lip seal

(5): Double lip seal

(6): Lower gasket set includes rear crankshaft seal only. Rear seal is a single lip design. If double lip rear seal is needed, please order C4955372 separately. Front crankshaft seal must also be purchased separately.

(7): Studded cap screw

(8): Fits Chrysler front gear train (FGT) engines only

(9): Fits rear gear train (RGT) engines only

(10): Bare head

Engine Series:
ISB

Engine Model:
6BT 6.7 ISB

Engine Desc:
CM2350, 370+HP

Engine Data:
24 VALVE

Engine Info:
6 Cyl

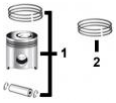
Engine Dimensions:
Bore: 4.21 in / 107 mm
Stroke: 4.88 in / 124 mm

Piston (M):
5336101

Please see page **649** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK6345/6 Std
- COK6345B/6 0.50 mm

2) **Engine I/F Kit**
- CIK6345/6 STD
- CIK6345B/6 .50MM
- SPEC SHEET - 6BT 6.7 ISB



1) **Piston & Ring Kit**
- C4376345 Std
- C4376345B 0.50 mm

Use 6

Main Bearing Set
- C3802070 Std
- C3802071 0.25 mm
- C3802072 0.50 mm
- C3802073 0.75 mm

Use 1

Con Rod Bearing
- C3901170 Std
- C3901171 0.25 mm
- C3901172 0.50 mm
- C3901173 0.75 mm

Rod bearings are priced and sold per shell

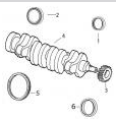
Fractured Con Rod Bearing
- C4893693 Std (3)
- C4892795 0.25 mm
- C4892796 0.50 mm
- C4892797 0.75 mm

Rod bearings are priced and sold per shell

Piston Kit:

1) 1 C5336101 Piston Std, 1 C4309399 Ring Set Std, 1 C4931041 Piston Pin, 2 C3920691 Ret.

2) 1 C5336102 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.



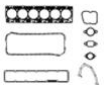
1) **Front Seal**
- C3904353 (1)
- C4890832 (1)

2) **Rear Seal**
- C3353978 (4)
- C4955372 (5)

3) **Crankshaft, Gear**

4) **Crankshaft**
- C4934862 (9)

5) **Ring Gear**
- C3903309 (173T) (1)
- C3905427 (127T) (1)
- C3901774 (159T) (1)
- C3902127 (138T) (1)



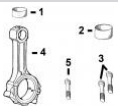
1) **Top Gasket Set**
- C4376090

2) **Bottom Gasket Set**
- C4376091 (6)

3) **Head Gasket**
- C4932210

4) **Oil Pan Gasket**
- C4337615 (1)
- C4934344 (1)

5) **Rocker Cover Gasket**
- C3963379



1) **Bushing, Piston Pin**
- C5257363 x6

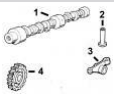
2) **Bushing, Cam**
- C3940059 x2

3) **Bolt, Con Rod**
- C4891179 x12

4) **Con Rod**
- C5257364

5) **Bolt, Ex Manifold**
- C3944593 (2)
- C3944655 (7)

6) **Spacer, Ex Manifold**
- C3945252



1) **Camshaft**
- C3979506 (1)
- C5263488 (1)

2) **Tappet**
- C3947759

3) **Rocker Arms**
- C3941927 x6 Intake
- C3941928 x6 Exhaust

4) **Camshaft Gear**
- C3955152

5) **Push Rod**
- C3941253

1) Intake, Valve Kit
- C3802924 Kit

Consists of:
- C3940735 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943449

Use 12

1) Exhaust, Valve Kit
- C4089672 Kit

Consists of:
- 3968183 x1 Valve
- C3940123 x2 Collet

2) Insert, Valve
- C3943450

Use 12

1) Valve Spring
- C4936080 x24

2) Seal, Valve
- C3955393 x24

3) Retainer, Valve
- C3943198 x24

1) **Water Pump**
- C5314945 (8)
- C5473173 (9)
- C4955394 (1)

2) **Water Pump Seal**
- C3906698

3) **Thermostat**
- C5292708 (1)

1) **Oil Pump**
- C3971544 (9)
- C4988801 (8)

2) **Fuel Injector**

3) **Turbocharger**
- C3787604 (1)

4) **Repair Sleeve**
- C4919951

1) **Cylinder Head**
- C5282703 (1)
- C5282703UF (10)

2) **Head Bolt**
- C3927063 x26

3) **Expansion Plug Kit**

4) **Belt Tensioner**
- C3947574 (1)
- C5270678 (1)

(1): Check application for proper usage.

(2): Flanged head cap screw.

(3): On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

(4): Single lip seal

(5): Double lip seal

(6): Lower gasket set includes rear crankshaft seal only. Rear seal is a single lip design. If double lip rear seal is needed, please order C4955372 separately. Front crankshaft seal must also be purchased separately.

(7): Studded cap screw

(8): Fits Chrysler front gear train (FGT) engines only

(9): Fits rear gear train (RGT) engines only

(10): Bare head

CUMMINS 6CT 8.3 PISTON (M): 3163

Engine Series:
C

Engine Model:
6CT 8.3

Engine Desc:
(CDC 6.830)

Engine Data:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm Stroke: 5.32 in / 135 mm

Piston (M):
3163, 9564, 9928, 8749

Please see page **650** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2400

Thin Wall
- COK2403

Thick Wall Long
- COK2403S

Thick Wall Short

2) **Engine I/F Kit**
- CIK2400
- CIK2403
- CIK2403S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- C3802400

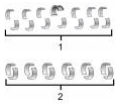
Consist of:
- a) C3923163
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 (10)

Piston-Liner Kit Thick Wall
Long Liner
- C3802403

Consist of:
- a) C3923163
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 (11)

Piston-Liner Kit Thick Wall
Short Liner
- C3802403S

Consist of:
- a) C3923163
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 (12)

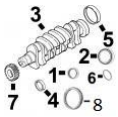


1) **Main Bearing Set**
- C3802210 Std
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

2) **Con Rod Bearing**
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 (4)

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

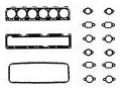
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) (13)
- C3905427 (127T) (13)
- C3901774 (159T) (13)
- C3902127 (138T) (13)

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780

1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 (5)

4) **Tappet**
- C3925031

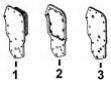
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 (7)

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777 (13)



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) Intake, Valve Kit
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) Insert, Valve
- C3924582

Use 6

1) Exhaust, Valve Kit
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) Insert, Valve
- C3924583

Use 6

1) Spring, Valve
- C3906412 x12

2) Seal, Valve
- C3915707 x12

1) Guide, Valve
- C3923564 x12

2) Retainer, Valve Spring
- C3912976 x12

1) **Water Pump**
- C3800976 (9) (8)

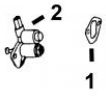
2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 (14)

2) **Head Bolt Kit**
- C6C-HBK (15)

3) **Turbocharger**
- C3802303 (13)



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 (13)

2) **Injector**
- C3908507 (13)
- C3908511 (13)

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).

(4): Order in multiples of two.

(5): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(6): Only use on engines built from year 1991 onwards.

(7): Do not use with Crankshaft part number 3965006.

(8): Some applications use short nose pump C3806180

(9): Marine applications use C3800975

(10): Consist of C3907792 Liner + C3907177 Seal.

(11): Consist of C3919937 Liner + C3907177 Seal.

(12): Consist of C3948095 Liner + C3907177 Seal.

(13): Check for proper application.

(14): Do not use on Marine applications.

(15): Used on ESN above 44,487,829.

CUMMINS 6CT 8.3 PISTON (M): 3165

Engine Series:
C

Engine Model:
6CT 8.3

Engine Data:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm
Stroke: 5.32 in / 135 mm

Piston (M):
3165, 9931, 9567, 2396

Cummins CPL's
954
1399
1435
601

1) **Engine O/H Kit**
- COK2399

Thin Wall
- COK2402

Thick Wall

2) **Engine I/F Kit**
- CIK2399
- CIK2402
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- C3802399

Consist of:
- a) C3923165
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 (9)

Piston-Liner Kit Thick Wall
- C3802402

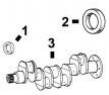
Consist of:
- a) C3923165
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 (10)

Main Bearing Set
- C3802210 Std.
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

Con Rod Bearing
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 (3)

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

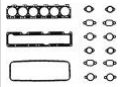
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) (11)
- C3905427 (127T) (11)
- C3901774 (159T) (11)
- C3902127 (138T) (11)

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

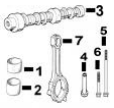
3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780



1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 (4)

4) **Tappet**
- C3925031

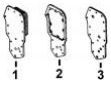
5) **Push Rod**
- C3905194

6) **Rod bolt**
- C3928870

7) **Connecting Rod**
- C3901383 (6)

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

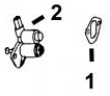
1) **Water Pump**
- C3800976
- C3806180 (7)
- C3800975 (8)

2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 (12)

2) **Head Bolt Kit**
- C6C-HBK (13)



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

Tensioner, Belt
- C3976831 (11)

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Order in multiples of two.

(4): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(5): Only use on engines built from year 1991 onwards.

(6): Do not use with Crankshaft part number 3965006.

(7): Some applications use short nose pump C3806180

(8): Marine applications use C3800975

(9): Consist of C3907792 Liner + C3907177 Seal.

(10): Consist of C3919937 Liner + C3907177 Seal.

(11): Check for proper application.

(12): Do not use on Marine applications.

(13): Used on ESN above 44,487,829.

Engine Series:
C

Engine Model:
6CT 8.3

Engine Data:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm Stroke: 5.32 in / 135 mm

Piston (M):
7707

Cummins CPL's

1262
1263
1406
1439
1615
1618
1668
2100
2367
2368
2531
2995
2996
8146

Case IH

2366 - Combine
2377 - Combine

1) **Engine O/H Kit**
- COK2388

Thin Wall
- COK2406

Thick Wall Long
- COK2406S

Thick Wall Short

2) **Engine I/F Kit**
- CIK2388
- CIK2406
- CIK2406S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- C3802388

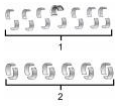
Consist of:
- a) C3917707
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 (10)

Piston-Liner Kit Thick Wall
Long Liner
- C3802406

Consist of:
- a) C3917707
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 (11)

Piston-Liner Kit Thick Wall
Short Liner
- C3802406S

Consist of:
- a) C3917707
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 (12)

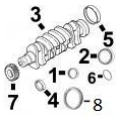


1) **Main Bearing Set**
- C3802210 Std
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

2) **Con Rod Bearing**
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 (4)

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

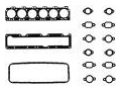
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) (13)
- C3905427 (127T) (13)
- C3901774 (159T) (13)
- C3902127 (138T) (13)

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780

1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 (5)

4) **Tappet**
- C3925031

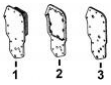
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 (7)

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338 (13)
- C3948072 (13)

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

1) **Water Pump**
- C3800976 (9) (8)
- C4089647 (13)

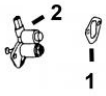
2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 (14)

2) **Head Bolt Kit**
- C6C-HBK (15)

3) **Turbocharger**
- C3802651 (13)



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 (13)

2) **Injector**
- C3919602 (13)

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).

(4): Order in multiples of two.

(5): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(6): Only use on engines built from year 1991 onwards.

(7): Do not use with Crankshaft part number 3965006.

(8): Some applications use short nose pump C3806180

(9): Marine applications use C3800975

(10): Consist of C3907792 Liner + C3907177 Seal.

(11): Consist of C3919937 Liner + C3907177 Seal.

(12): Consist of C3948095 Liner + C3907177 Seal.

(13): Check for proper application.

(14): Do not use on Marine applications.

(15): Used on ESN above 44,487,829.

CUMMINS 6CT 8.3 PISTON (M): 9566

Engine Series:
C

Engine Model:
6CT 8.3

Engine Data:
TURBOCHARGED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm Stroke: 5.32 in / 135 mm

Piston (M):
9566

Cummins CPL's
1221
1282
1366
1929
2172
2960
8089

1) **Engine O/H Kit**
- COK2372

Thin Wall
- COK2405

Thick Wall Long
- COK4580

Thick Wall Short

2) **Engine I/F Kit**
- CIK2372
- CIK2405
- CIK4580
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- C3802372

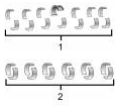
Consist of:
- a) C3919566
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 10

Piston-Liner Kit Thick Wall
Long Liner
- C3802405

Consist of:
- a) C3919566
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 11

Piston-Liner Kit Thick Wall
Short Liner
- C3934580

Consist of:
- a) C3919566
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 12

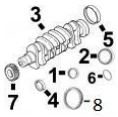


1) **Main Bearing Set**
- C3802210 Std
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

2) **Con Rod Bearing**
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 4

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

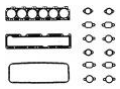
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) 13
- C3905427 (127T) 13
- C3901774 (159T) 13
- C3902127 (138T) 13

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

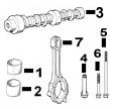
3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780



1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 5

4) **Tappet**
- C3925031

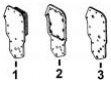
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 7

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12 14

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

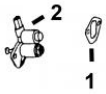
1) **Water Pump**
- C3800976 9 8

2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 14

2) **Head Bolt Kit**
- C6C-HBK 15



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

Tensioner, Belt
- C3976831 13

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).

(4): Order in multiples of two.

(5): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(6): Only use on engines built from year 1991 onwards.

(7): Do not use with Crankshaft part number 3965006.

(8): Some applications use short nose pump C3806180

(9): Marine applications use C3800975

(10): Consist of C3907792 Liner + C3907177 Seal.

(11): Consist of C3919937 Liner + C3907177 Seal.

(12): Consist of C3948095 Liner + C3907177 Seal.

(13): Check for proper application.

(14): Do not use on Marine applications.

(15): Used on ESN above 44,487,829.

CUMMINS 6CTA 8.3 PISTON (M): 3164

Engine Series:
C

Engine Model:
6CTA 8.3

Engine Desc:
(CDC 6.830)

Engine Data:
TURBOCHARGED AFTERCOOLED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm Stroke: 5.32 in / 135 mm

Piston (M):
3164, 9565, 9930

Please see page **651** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK2401

Thin Wall
- COK2404

Thick Wall Long
- COK2404S

Thick Wall Short

2) **Engine I/F Kit**
- CIK2401
- CIK2404
- CIK2404S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- C3802401

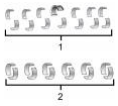
Consist of:
- a) C3923164
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 10

Piston-Liner Kit Thick Wall
Long Liner
- C3802404

Consist of:
- a) C3923164
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 11

Piston-Liner Kit Thick Wall
Short Liner
- C3802404S

Consist of:
- a) C3923164
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 12

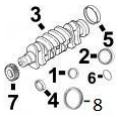


1) **Main Bearing Set**
- C3802210 Std
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

2) **Con Rod Bearing**
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 4

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

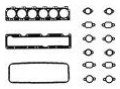
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) 13
- C3905427 (127T) 13
- C3901774 (159T) 13
- C3902127 (138T) 13

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780

1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 5

4) **Tappet**
- C3925031

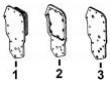
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 7

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

1) **Water Pump**
- C3800976 9 8

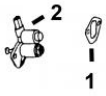
2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 14

2) **Head Bolt Kit**
- C6C-HBK 15

3) **Turbocharger**
- C3802303 13



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 13

2) **Injector**
- C3908511 13
- C3919602 13
- C3926787 13

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).

(4): Order in multiples of two.

(5): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(6): Only use on engines built from year 1991 onwards.

(7): Do not use with Crankshaft part number 3965006.

(8): Some applications use short nose pump C3806180

(9): Marine applications use C3800975

(10): Consist of C3907792 Liner + C3907177 Seal.

(11): Consist of C3919937 Liner + C3907177 Seal.

(12): Consist of C3948095 Liner + C3907177 Seal.

(13): Check for proper application.

(14): Do not use on Marine applications.

(15): Used on ESN above 44,487,829.

CUMMINS 6CTA 8.3 PISTON (M): 3537

Engine Series:
C

Engine Model:
6CTA 8.3

Engine Data:
TURBOCHARGED AFTERCOOLED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm Stroke: 5.32 in / 135 mm

Piston (M):
3537

Please see page **652** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK3537

Thin Wall
- COK3537L

Thick Wall Long
- COK3537S

Thick Wall Short

2) **Engine I/F Kit**
- CIK3537
- CIK3537L
- CIK3537S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- CPLK3537

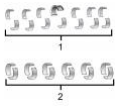
Consist of:
- a) C3923537
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 10

Piston-Liner Kit Thick Wall
Long Liner
- CPLK3537L

Consist of:
- a) C3923537
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 11

Piston-Liner Kit Thick Wall
Short Liner
- CPLK3537S

Consist of:
- a) C3923537
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 12

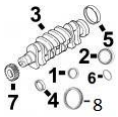


1) **Main Bearing Set**
- C3802210 Std
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

2) **Con Rod Bearing**
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 4

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

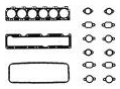
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) 13
- C3905427 (127T) 13
- C3901774 (159T) 13
- C3902127 (138T) 13

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

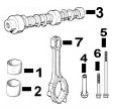
3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780



1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 5

4) **Tappet**
- C3925031

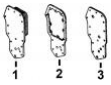
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 7

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

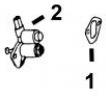
1) **Water Pump**
- C3800976 9 8

2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 14

2) **Head Bolt Kit**
- C6C-HBK 15



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 13

2) **Injector**
- C3919602 13

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).

(4): Order in multiples of two.

(5): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(6): Only use on engines built from year 1991 onwards.

(7): Do not use with Crankshaft part number 3965006.

(8): Some applications use short nose pump C3806180

(9): Marine applications use C3800975

(10): Consist of C3907792 Liner + C3907177 Seal.

(11): Consist of C3919937 Liner + C3907177 Seal.

(12): Consist of C3948095 Liner + C3907177 Seal.

(13): Check for proper application.

(14): Do not use on Marine applications.

(15): Used on ESN above 44,487,829.

CUMMINS 6CTA 8.3 PISTON (M): 9161

Engine Series:
C

Engine Model:
6CTA 8.3

Engine Data:
TURBOCHARGED AFTERCOOLED

Engine Info:
6 Cyl

Engine Dimensions:
EMISSION
Bore: 4.49 in / 114 mm
Stroke: 5.32 in / 135 mm

Piston (M):
9161

Please see page **653** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK9161L

Thick Wall Long
- COK9161S

Thick Wall Short

2) **Engine I/F Kit**
- CIK9161L
- CIK9161S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
- CPLK9161L

Consist of:
- a) C3929161
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 9

Piston-Liner Kit
- CPLK9161S

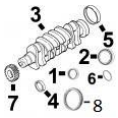
Consist of:
- a) C3929161
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 10

Main Bearing Set
- C3802210 Std.
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

Con Rod Bearing
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 3

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

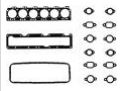
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) 11
- C3905427 (127T) 11
- C3901774 (159T) 11
- C3902127 (138T) 11

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780

1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 4

4) **Tappet**
- C3925031

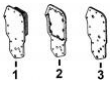
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 6

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

1) **Water Pump**
- C3800976 8 7

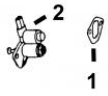
2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 12

2) **Head Bolt Kit**
- C6C-HBK 13

3) **Turbocharger**
- C3536309 11
- C3802651 11



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 11

2) **Injector**
- C3926787 11
- C3930525 11
- C3931735 11

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Order in multiples of two.

(4): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(5): Only use on engines built from year 1991 onwards.

(6): Do not use with Crankshaft part number 3965006.

(7): Some applications use short nose pump C3806180

(8): Marine applications use C3800975

(9): Consist of C3919937 Liner + C3907177 Seal.

(10): Consist of C3948095 Liner + C3907177 Seal.

(11): Check for proper application.

(12): Do not use on Marine applications.

(13): Used on ESN above 44,487,829.

CUMMINS 6CTA 8.3 PISTON (M): 9247

Engine Series:
C

Engine Model:
6CTA 8.3

Engine Data:
TURBOCHARGED AFTERCOOLED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm Stroke: 5.32 in / 135 mm

Piston (M):
9247

Cummins CPL's

1371
1372
1684
2028
2381
2383

Shovel

EX300 LCH - Tata Hitachi

Skidder

Ranger F68C
Ranger F68G

1) **Engine O/H Kit**
- COK9247

Thin Wall
- COK9247L

Thick Wall Long
- COK9247S

Thick Wall Short

2) **Engine I/F Kit**
- CIK9247
- CIK9247L
- CIK9247S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
Thin Wall
- CPLK9247

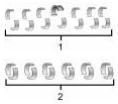
Consist of:
- a) C3919247
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802370 10

Piston-Liner Kit Thick Wall
Long Liner
- CPLK9247L

Consist of:
- a) C3919247
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 11

Piston-Liner Kit Thick Wall
Short Liner
- CPLK9247S

Consist of:
- a) C3919247
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 12

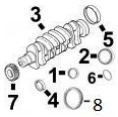


1) **Main Bearing Set**
- C3802210 Std
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

2) **Con Rod Bearing**
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 4

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

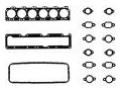
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) 13
- C3905427 (127T) 13
- C3901774 (159T) 13
- C3902127 (138T) 13

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780

1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 5

4) **Tappet**
- C3925031

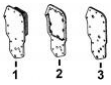
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 7

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

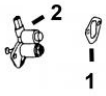
1) **Water Pump**
- C3800976 9 8

2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 14

2) **Head Bolt Kit**
- C6C-HBK 15



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 13

2) **Injector**
- C3919602 13

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).

(4): Order in multiples of two.

(5): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(6): Only use on engines built from year 1991 onwards.

(7): Do not use with Crankshaft part number 3965006.

(8): Some applications use short nose pump C3806180

(9): Marine applications use C3800975

(10): Consist of C3907792 Liner + C3907177 Seal.

(11): Consist of C3919937 Liner + C3907177 Seal.

(12): Consist of C3948095 Liner + C3907177 Seal.

(13): Check for proper application.

(14): Do not use on Marine applications.

(15): Used on ESN above 44,487,829.

CUMMINS 6CTA 8.3 PISTON (M): 5878

Engine Series:
C

Engine Model:
6CTA 8.3

Engine Data:
TURBOCHARGED AFTERCOOLED

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.49 in / 114 mm
Stroke: 5.32 in / 135 mm

Piston (M):
5878

Please see page **654** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK5878L

Thick Wall Long
- COK5878S

Thick Wall Short

2) **Engine I/F Kit**
- CIK5878L
- CIK5878S
- SPEC SHEET - 6CT 8.3

Piston-Liner Kit
- CPLK5878L

Consist of:
- a) C3925878
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3802407 9

Piston-Liner-Kit
- CPLK5878S

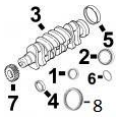
Consist of:
- a) C3925878
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328 10

Main Bearing Set
- C3802210 Std.
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

Con Rod Bearing
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm
- Use 12 3

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

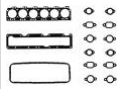
5) **Rear Wear Sleeve**
- C3906081

6) **Front Rect Seal**
- C3903475

7) **Rear Rect Seal**
- C3912473

8) **Ring Gear**
- C3903309 (173T) 11
- C3905427 (127T) 11
- C3901774 (159T) 11
- C3902127 (138T) 11

9) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4025271

2) **Bottom Gsk Set**
- C3800348

3) **Head Gasket**
- C3938267

4) **Oil Pan Gasket**
- C3914017

5) **Valve Cover Gsk**
- C3905449

6) **Front Gear Gasket**
- C3929253

7) **Front Cover Gsk**
- C3917780

1) **Bushing, Piston**
- C3913990 x6

2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3924471 4

4) **Tappet**
- C3925031

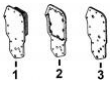
5) **Push Rod**
- C3905194

6) **Rod Bolt**
- C3928870

7) **Connecting Rod**
- C3901383 6

8) **Con Rod Nut**
- C3901381

9) **Camshaft Gear**
- C3918777



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

4) **Oil Pump**
- C3930338

1) **Intake, Valve Kit**
- C3802463

Consist of:
- C3924492 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924582

Use 6

1) **Exhaust, Valve Kit**
- C3802085

Consists of:
- C3921444 x1 Valve
- C3901177 x2 Collet

2) **Insert, Valve**
- C3924583

Use 6

1) **Spring, Valve**
- C3906412 x12

2) **Seal, Valve**
- C3915707 x12

1) **Guide, Valve**
- C3923564 x12

2) **Retainer, Valve Spring**
- C3912976 x12

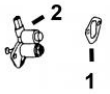
1) **Water Pump**
- C3800976 8 7

2) **Water Pump Seal**
- C3902089

3) **Thermostat**
- C3928639 x2

1) **Cylinder Head**
- C3973493 12

2) **Head Bolt Kit**
- C6C-HBK 13



1) **Fuel Lift Pump**
- C3917998

2) **Fuel Pump Gasket**
- C3914304

Tensioner, Belt
- C3976831 11

(1): Block 3802265 (Thin Wall) Flange ø 5.223".

(2): Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).

(3): Order in multiples of two.

(4): To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.

(5): Only use on engines built from year 1991 onwards.

(6): Do not use with Crankshaft part number 3965006.

(7): Some applications use short nose pump C3806180

(8): Marine applications use C3800975

(9): Consist of C3919937 Liner + C3907177 Seal.

(10): Consist of C3948095 Liner + C3907177 Seal.

(11): Check for proper application.

(12): Do not use on Marine applications.

(13): Used on ESN above 44,487,829.

CUMMINS QSC 8.3 PISTON (M): 2106, 3446

Engine Series:
C

Engine Model:
QSC 8.3

Engine Desc:
CAPS INJECTION

Engine Data:
24 VALVE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.484 in / 114 mm Stroke: 5.31 in / 135 mm

Piston (M):
2106, 3446

Please see page **655** for a complete list of equipment models.

1) **Engine O/H Kit**
- COK0319

2) **Engine I/F Kit**
- CIK0319
- SPEC SHEET - QSC 8.3

Piston-Liner Kit
- C3800319

Consist of:
- a) C3942106
- b) C3901597
- c) C3901996
- d) C3802258
- e) C3800328

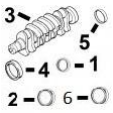
Use 6

Main Bearing Set
- C3802210 Std.
- C3802211 0.25 mm
- C3802212 0.50 mm
- C3802213 0.75 mm

Use 1

Con Rod Bearing
- C3901430 Std
- C3901431 0.25 mm
- C3901432 0.50 mm
- C3901433 0.75 mm

Rod bearings are priced and sold per shell



1) **Front Seal**
- C3353977

2) **Rear Seal**
- C3353978

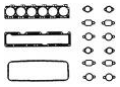
3) **Crankshaft**
- C3918986

4) **Front Wear Sleeve**
- C3908277

5) **Rear Wear Sleeve**
- C3906081

6) **Ring Gear**
- C3903309 (173T) 1
- C3905427 (127T) 1
- C3901774 (159T) 1
- C3902127 (138T) 1

7) **Crankshaft Gear**
- C3918776



1) **Top Gasket Set**
- C4089958

2) **Bottom Gsk Set**
- C3800343

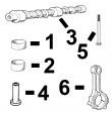
3) **Head Gasket**
- C3943366

4) **Oil Pan Gasket**
- C3938160

5) **Valve Cover Gsk**
- C3939284

6) **Front Gear Gasket**
- C3944293

7) **Rear Cover Gasket**
- C3939353



1) **Bushing, Piston**
- C3913990 x6

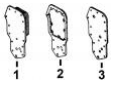
2) **Bushing, Cam**
- C3943199 x7

3) **Camshaft**
- C3938163

4) **Tappet**
- C3945866 x12

5) **Head Bolt Long**
- C3917728 x26

6) **Con Rod**
- C3971394



1) **Oil Cooler 12 Plates**
- C3918175

2) **Oil Cooler Gasket**
- C3918174

3) **Oil Cooler Gsk Filter Hd**
- C3914308

1) **Intake Valve**
- C3942588 x12

2) **Insert, Valve**
- C3940152 x12

1) **Exhaust Valve**
- C3942589 x12

2) **Insert, Valve**
- C3940153 x12

1) **Valve Spring**
- C3940279 x24

2) **Seal, Valve**
- C3948578 x12

1) **Valve Guide**
- C3942645 x24

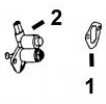
2) **Retainer, Valve Spring**
- C3900250 X48

1) **Water Pump**
- C4089647

2) **Water Pump Seal**
- C3940386

3) **Thermostat**
- C5284903

Oil, Pump
- C3948072



1) **Fuel Lift Pump**
- C4988747 1

2) **Fuel Pump Gasket**
- C3914304

1) **Tensioner, Belt**
- C3976831 1

2) **Turbocharger**
- C3590348 1

(1): Check Application for proper usage.

KUBOTA 02 SERIES D902

Engine Series:
02

Engine Model:
D902-E3B / D902-E4B

Engine Desc:
D902

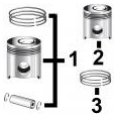
Engine Data:
Indirect Injection Screw-in fuel injector

Engine Info:
3 Cyl - Naturally Aspirated

Engine Dimensions:
Bore: 2.83 in / 72mm Stroke: 2.90 in / 73.6mm

Please see page **656** for a complete list of equipment models.

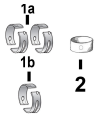
Engine O/H Kit
- KD902 Std. 1
- KD902/25 .25 mm 1
- KD902A Std. 2
- KD902A/25 .25 mm 2



1) **Piston & Ring Kit**
- K1J091-21770 Std.
- K1J091-21780 0.25 mm

2) **Piston**
- K1J091-21110 Std.
- K1J091-21900 0.25

3) **Ring Set**
- K1J091-21050 Std. 4
- K1J091-21090 0.25 4



1a) **Main Bearing**
- K1G460-23833 Std.
- K1G460-23943 0.20 mm
- K1G460-23963 0.40 mm

Use 2 Pairs

1b) **Main Bearing**
- K1G460-23823 Std.
- K1G460-23933 0.20 mm
- K1G460-23953 0.40 mm

Use 1 Pair

2) **Frt. Crank Bushing**
- K1G460-23472 Std.
- K1G460-23912 0.20 mm
- K1G460-23922 0.40 mm

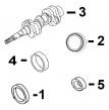
Use 1

Con Rod Bearing
- K15861-22314 Std.
- K15861-22973 0.20 mm
- K15861-22983 0.40 mm

Use 3 Pairs

Thrust Washer
- K15261-23533/44 Std.

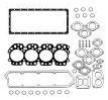
Set of 2 Pairs



1) **Front Seal**
- K1J094-04140

2) **Rear Seal**
- K1G460-04460

3) **Crankshaft**
- K1G962-23012 3



1) **Top Gasket Set**
- K1G470-99350 1
- K1G822-99354 2

2) **Bottom Gasket Set**
- K1G470-99365 5

3) **Head Gasket**
- K1G962-03313 2

4) **Rocker Cvr. Gasket**
- K1G962-14522

1) **Bushing, Con Rod**
-

2) **Bolt, Con Rod**

3) **Connecting Rod**
- K1G687-22010

1) **Tappet**
-

2) **Pushrod**

1) **Thermostat**
- K15321-73010 3
- K19434-73014 3

2) **Gasket, Thermostat**
- K16221-73270

Valve, Intake
- K1G460-13110

Valve, Exhaust
- K1G460-13120

Guide, Valve Intake
Guide, Valve Exh.

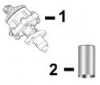
Spring, Valve
- K14601-13240

Seal, Valve
- K11420-13150

Lock, Valve
- K14601-13980

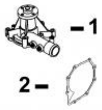
1) **Oil pump**
- K16851-35012

2) **Solenoid, Fuel Stop**
- K16851-60014



1) **Fuel pump**
- K1G961-52030 3
- K1J351-52030 3

2) **Repair Sleeve**
- 72RS



1) **Water Pump**
- K1E051-73036 3
- K1G820-73037 3

2) **Gasket, Water Pump**

1) **Injector**
- K16871-53002 3
- KH1600-53000 3

2) **Glow Plug**
- K16851-65510

3) **Oil pressure switch**

4) **Copper gasket, injector**
- K15841-53622

5) **Heat Shield, Injector**
- K19077-53650

(1): Composite head gasket

(2): MLS head gasket

(3): Check application for proper usage

(4): Top – 1.50mm – Half Keystone, Middle – 1.50mm – Napier/Hook, Oil Control – 2.00mm

(5): Includes front and rear crankshaft seals

Engine Series:
05

Engine Model:
D905

Engine Desc:
D905, D905BG, D905-E2B

Engine Data:
Indirect Injection Screw-in fuel injector

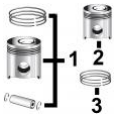
Engine Info:
3 Cyl - Naturally Aspirated

Engine Dimensions:
Bore: 2.83 in / 72mm Stroke: 2.90 in / 73.6mm

Kubota

B1700DT - TRACTOR
B1700E - TRACTOR
B1700HST-D - TRACTOR
BX2100D - TRACTOR
BX22 - TRACTOR
BX22D - TRACTOR
BX2200D - TRACTOR
BX23D - TRACTOR

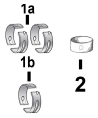
Engine O/H Kit
- KD905 Std. 2
- KD905/50 0.50mm 2
- KD905A Std. 3
- KD905A/50 .50mm 3



1) **Piston & Ring Kit**
- K1G032-21773 Std.
- K1G032-21793 0.50 mm

2) **Piston**
- K16304-21110 Std.
- K16304-21910 0.50

3) **Ring Set**
- K16304-21050 Std.
- K16304-21090 0.50



1a) **Main Bearing**
- K16292-23480 Std.
- K16292-23930 0.20 mm
- K16292-23940 0.40 mm

Use 2 Pairs

1b) **Main Bearing**
- K16292-23490 Std.
- K16292-23860 0.20 mm
- K16292-23870 0.40 mm

Use 1 Pair

2) **Frt. Crank Bushing**
- K16292-23470 Std.
- K16292-23910 0.20 mm
- K16292-23920 0.40 mm

Use 1

Con Rod Bearing
- K16292-22310 Std.
- K16292-22970 0.20 mm
- K16292-22980 0.40 mm

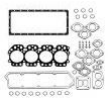
Use 3 Pairs

Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

Set of 2 Pairs

1) **Front Seal**
- K16241-04212

2) **Rear Seal**
- K16285-04460



1) **Head Gasket Set**
- K07916-27886 2
- K1G032-99353 3

2) **Bottom Gasket Set**
- K1G032-99363 15

3) **Head Gasket**
- K16221-03310 2
- K1G032-03310 3

4) **Rocker Cvr. Gasket**
- K16261-14524

5) **Oil Pan Gasket**
- K16266-01620

1) **Bushing, Con Rod**
- K1G700-21980 4

2) **Bolt, Con Rod**
- K16241-22142

3) **Connecting Rod**
- K16292-22016

1) **Tappet**
- K16261-15550

2) **Pushrod**
- K16241-15114

1) **Thermostat**
- K15531-73010 5
- K1E399-73010 6

2) **Gasket, Thermostat**
- K16221-73270 7
- K16851-73270 8

Valve, Intake
- K16241-13110

Valve, Exhaust
- K16241-13120

Guide, Valve Intake
- K16261-13540

Guide, Valve Exh.
- K16261-13560

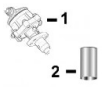
Spring, Valve
- K16271-13240 9
- K15261-13240 10

Seal, Valve
- K1C010-13150

Lock, Valve
- K15261-13980

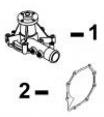
1) **Oil pump**
- K16241-35070

2) **Solenoid, Fuel Stop**
- K17208-60016 1
- K17594-60014 1



1) **Fuel pump**
- K16241-52030 1

2) **Repair Sleeve**
- 72RS



1) **Water pump**
- K16251-73034 11
- K16241-73034 12

2) **Gasket, water pump**
- K16239-73430 13
- K16261-73430 14

1) **Injector**
- K16032-53902

2) **Glow Plug**
- K16851-65510

3) **Oil pressure switch**
- K15841-39010 1

4) **Copper gasket, injector**
- K15841-53622

5) **Heat Shield, Injector**
- K19077-53650

(1): Check application for proper usage

(2): Composite head gasket

(3): MLS head gasket

(5): 71°C (160° F). Use Gasket K16221-73270Flange outside diameter 44mm & inner diameter 22mm (below flange).Total height 40mm

(6): 71°C (160° F). Use Gasket K16851-73270Flange outside diameter 38mm & inner diameter 27mm (below flange).Total height 45mm

(7): For thermostat K19434-73014. Installation holes center to center 60mm. Inner Diameter 41mm

(8): For thermostat K1E399-73010. Installation holes center to center 52mm. Inner Diameter 35mm

(9): Free length ≈37.05mm

(10): Free length ≈35.6mm

(11): Impeller diameter 68mm. Use Gasket K16239-73430

(12): Impeller diameter 58mm. Use Gasket K16261-73430

(13): Metal material. Use on water pump K16251-73034 (68mm impeller)

(14): Paper material. Use on water pump 16241-73034 (58mm impeller)

(4): Finished Bore

(15): Includes front and rear crankshaft seals

KUBOTA 05 SERIES D1105 INDIRECT INJECTION

Engine Series:
05

Engine Model:
D1105-BB / D1105-BG2

Engine Desc:
D1105-BBS

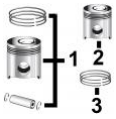
Engine Data:
Indirect Injection Screw-in fuel injector

Engine Info:
3 Cyl - Naturally Aspirated

Engine Dimensions:
Bore: 3.07 in / 78mm Stroke: 3.09 in / 78.4mm

Please see page **657** for a complete list of equipment models.

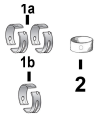
Engine O/H Kit
- K D1105 Std.
- K D1105/50 0.50 mm.



1) **Piston & Ring Kit**
- K K1G069-21775 Std.
- K K1G069-21795 0.50 mm

2) **Piston**
- K K16060-21114 Std.
- K K16060-21914 0.50

3) **Ring Set**
- K K16261-21050 Std. 15
- K K16261-21090 0.50 16



1a) **Main Bearing**
- K K16292-23480 Std.
- K K16292-23930 0.20 mm
- K K16292-23940 0.40 mm

Use 2 Pairs

1b) **Main Bearing**
- K K16292-23490 Std.
- K K16292-23860 0.20 mm
- K K16292-23870 0.40 mm

Use 1 Pair

2) **Frt. Crank Bushing**
- K K16292-23470 Std.
- K K16292-23910 0.20 mm
- K K16292-23920 0.40 mm

Use 1

Con Rod Bearing
- K K16292-22310 Std.
- K K16292-22970 0.20 mm
- K K16292-22980 0.40 mm

Use 3 Pairs

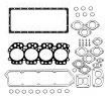
Thrust Washer
- K K15521-23530/40 Std.
- K K15521-23950/70 0.20 mm
- K K15521-23960/80 0.40 mm

Set of 2 Pairs

1) **Front Seal**
- K K16241-04212

2) **Rear Seal**
- K K16241-04460

3) **R. Crank Sleeve**
- K K16241-23280



1) **Top Gasket Set**
- K K07916-29116 1
- K K07916-29117 17

2) **Bottom Gasket Set**
- K K1G995-99362 19

3) **Head Gasket**
- K K16261-03310 2
- K K1E038-03310 3
- K K1G063-03310 4

4) **Rocker Cvr. Gasket**
- K K16261-14524

5) **Oil Pan**
- K K16266-01620

1) **Bushing, Con Rod**
- K K1G700-21980 18

2) **Bolt, Con Rod**
- K K16241-22142

3) **Connecting Rod**
- K K16292-22016

1) **Tappet**
- K K1G673-15550

2) **Pushrod**
- K K16241-15114

1) **Thermostat**
- K K19434-73014 5
- K K1E399-73010 6

2) **Gasket, Thermostat**
- K k16221-73270 7
- K K16851-73270 8

Valve, Intake
- K K16241-13110

Valve, Exhaust
- K K16241-13120

Guide, Valve Intake
- K K16261-13540

Guide, Valve Exh.
- K K16261-13560

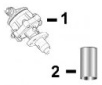
Spring, Valve
- K K16271-13240 9
- K K15261-13240 10

Seal, Valve
- K K1C010-13150

Lock, Valve
- K K15261-13980

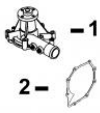
1) **Oil pump**
- K K16241-35070

2) **Solenoid, Fuel Stop**
- K K17208-60016 20



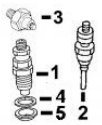
1) **Fuel pump**
- K K16241-52030

2) **Repair Sleeve**
- K 78RS



1) **Water pump**
- K K16251-73034 11
- K K16241-73034 12

2) **Gasket, water pump**
- K K16239-73430 13
- K K16261-73430 14



1) **Injector**
- K K16032-53902

2) **Glow Plug**
- K K16851-65510

3) **Oil pressure switch**
- K K15841-39010

4) **Copper gasket, injector**
- K K15841-53622

5) **Heat Shield, Injector**
- K K19077-53650

(1): Includes composite head gasket K16261-03310 (no gas vents between fire rings)

(2): Composite Material. No gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket.

(3): Composite Material. It does have gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket

(4): MLS

(5): 71°C (160° F). Use Gasket K16221-73270Flange outside diameter 44mm & inner diameter 22mm (below flange).Total height 40mm

(6): 71°C (160° F). Use Gasket K16851-73270Flange outside diameter 38mm & inner diameter 27mm (below flange).Total height 45mm

(7): For thermostat K19434-73014. Installation holes center to center 60mm. Inner Diameter 41mm

(8): For thermostat K1E399-73010. Installation holes center to center 52mm. Inner Diameter 35mm

(9): Free length ≈37.05mm

(10): Free length ≈35.6mm

(11): Impeller diameter 68mm. Use Gasket K16239-73430

(12): Impeller diameter 58mm. Use Gasket K16261-73430

(13): Metal material. Use on water pump K16251-73034 (68mm impeller)

(14): Paper material. Use on water pump 16241-73034 (58mm impeller)

(15): Middle ring is Napier/Hook style ring. There is also available ring set 16292-21050 with a internally stepped middle ring

(16): Middle ring is Napier/Hook style ring. There is also available ring set 16292-21090 with a internally stepped middle ring

(17): Includes composite head gasket K1E038-03310 (gas vents between fire rings)

(18): Finished Bore

(19): Kit includes the 16264-04132 Front Timing Cover Gasket. There is another Front Timing cover gasket 1G700-04133 which is not interchangeable.

(20): Check application for proper usage.

KUBOTA 05 SERIES D1105T INDIRECT INJECTION

Engine Series:
05

Engine Model:
D1105-T-E3B

Engine Data:
Indirect Injection Screw-in fuel injector

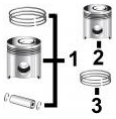
Engine Info:
3 Cyl - Turbocharged

Engine Dimensions:
Bore: 3.07 in / 78mm Stroke: 3.09 in / 78.4mm

BOBCAT
B100 - Loader Backhoe
B200 - Loader Backhoe
B250 - Loader Backhoe

DITCH WITCH
SK650 - Mini Skid Steer
XT855 - Mini Skid Steer

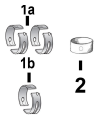
Engine O/H Kit
- KD1105T Std. 1
- KD1105T/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1G993-21774 Std.
- K1G995-21794 0.50 mm

2) **Piston**
- K16292-21115 Std.
- K16292-21915 0.50

3) **Ring Set**
- K16292-21050 Std.
- K16292-21090 0.50



1a) **Main Bearing**
- K16292-23480 Std.
- K16292-23930 0.20 mm
- K16292-23940 0.40 mm

Use 2 Pairs

1b) **Main Bearing**
- K16292-23490 Std.
- K16292-23860 0.20 mm
- K16292-23870 0.40 mm

Use 1 Pair

2) **Frt. Crank Bushing**
- K16292-23470 Std.
- K16292-23910 0.20 mm
- K16292-23920 0.40 mm

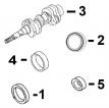
Use 1

Con Rod Bearing
- K16292-22310 Std.
- K16292-22970 0.20 mm
- K16292-22980 0.40 mm

Use 3 Pairs

Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

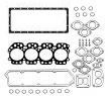
Set of 2 Pairs



1) **Front Seal**
- K16241-04212

2) **Rear Seal**
- K16241-04460

3) **R. Crank Sleeve**
- K16241-23280



1) **Top Gasket Set**
- K07916-29117 1

2) **Bottom Gasket Set**
- K1G995-99362 16

3) **Head Gasket**
- K16261-03310 2
- K1E038-03310 3
- K1G063-03310 4

4) **Rocker Cvr. Gasket**
- K16261-14524

5) **Oil Pan**
- K16266-01620

1) **Bushing, Con Rod**
- K1G700-21980 15

2) **Bolt, Con Rod**
- K16241-22142

3) **Connecting Rod**
- K16292-22016

1) **Tappet**
- K1G673-15550

2) **Pushrod**
- K16241-15114

1) **Thermostat**
- K19434-73014 5
- K1E399-73010 6

2) **Gasket, Thermostat**
- k16221-73270 7
- K16851-73270 8

Valve, Intake
- K16241-13110

Valve, Exhaust
- K16241-13120

Guide, Valve Intake
- K16261-13540

Guide, Valve Exh.
- K16261-13560

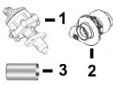
Spring, Valve
- K16271-13240 9
- K15261-13240 10

Seal, Valve
- K1C010-13150

Lock, Valve
- K15261-13980

1) **Oil pump**
- K16241-35070

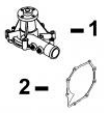
2) **Solenoid, Fuel Stop**
- K17208-60016 17



1) **Fuel pump**
- K16241-52030

2) **Turbocharger**
- K16292-17016

3) **Repair Sleeve**
- 78RS



1) **Water pump**
- K16251-73034 11
- K16241-73034 12

2) **Gasket, water pump**
- K16239-73430 13
- K16261-73430 14

1) **Injector**
- K16032-53902

2) **Glow Plug**
- K16851-65510

3) **Oil pressure switch**
- K15841-39010

4) **Copper gasket, injector**
- K15841-53622

5) **Heat Shield, Injector**
- K19077-53650

(1): Includes composite head gasket K1E038-03310 (gas vents between fire rings) Other head gaskets available
(2): Composite Material. No gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket.
(3): Composite Material. It does have gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket
(4): MLS
(5): 71°C (160° F). Use gasket K16221-73270Flange outside diameter 44mm & inner diameter 22mm (below flange).Total height 40mm
(6): 71°C (160° F). Use gasket K16851-73270Flange outside diameter 38mm & inner diameter 27mm (below flange).Total height 45mm
(7): For thermostat K19434-73014. Installation holes center to center 60mm. Inner Diameter 41mm
(8): For thermostat K1E399-73010. Installation holes center to center 52mm. Inner Diameter 35mm
(9): Free length ≈37.05mm
(10): Free length ≈35.6mm
(11): Impeller diameter 68mm. Use Gasket K16239-73430
(12): Impeller diameter 58mm. Use Gasket K16261-73430
(13): Metal material. Use on water pump K16251-73034 (68mm impeller)
(14): Paper material. Use on water pump 16241-73034 (58mm impeller)
(15): Finished Bore
(16): Kit includes the 16264-04132 Front Timing Cover Gasket. There is another Front Timing cover gasket 1G700-04133 which is not interchangeable.
(17): Check application for proper usage.

KUBOTA 05 SERIES V1505 INDIRECT INJECTION

Engine Series:
05

Engine Model:
V1505-E3B / V1505-BG2

Engine Desc:
V1505-BB / V1505-BBS

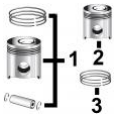
Engine Data:
Indirect Injection Screw-in fuel injector

Engine Info:
4 Cyl - Naturally Aspirated

Engine Dimensions:
Bore: 3.07 in / 78mm Stroke: 3.09 in / 78.4mm

Please see page **658** for a complete list of equipment models.

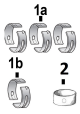
Engine O/H Kit
- KV1505 Std.
- KV1505/50 0.50 mm



1) **Piston & Ring Kit**
- K1G069-21775 Std.
- K1G069-21795 0.50 mm

2) **Piston**
- K16060-21114 Std.
- K16060-21914 0.50

3) **Ring Set**
- K16261-21050 Std. 15
- K16261-21090 0.50 16



1a) **Main Bearing**
- K16292-23480 Std.
- K16292-23930 0.20 mm
- K16292-23940 0.40 mm

Use 3 Pairs

1b) **Main Bearing**
- K16292-23490 Std.
- K16292-23860 0.20 mm
- K16292-23870 0.40 mm

Use 1 Pair

2) **Frt. Crank Bushing**
- K16292-23470 Std.
- K16292-23910 0.20 mm
- K16292-23920 0.40 mm

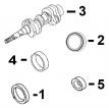
Use 1

Con Rod Bearing
- K16292-22310 Std.
- K16292-22970 0.20 mm
- K16292-22980 0.40 mm

Use 4 Pairs

Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

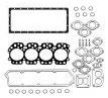
Set of 2 Pairs



1) **Front Seal**
- K16241-04212

2) **Rear Seal**
- K16241-04460

3) **R. Crank Sleeve**
- K16241-23280



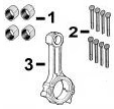
1) **Top Gasket Set**
- K16286-99352 1
- K07916-27305 17

2) **Bottom Gasket Set**
- K1G089-99365

3) **Head Gasket**
- K16282-03310 2
- K16292-03310 3
- K16394-03313 4

4) **Rocker Cvr. Gasket**
- K16241-14520

5) **Oil Pan**
- K16299-01620



1) **Bushing, Con Rod**
- K1G700-21980 18

2) **Bolt, Con Rod**
- K16241-22142

3) **Connecting Rod**
- K16292-22016

1) **Tappet**
- K1G673-15550

2) **Pushrod**
- K16241-15114

1) **Thermostat**
- K19434-73014 5
- K1E399-73010 6

2) **Gasket, Thermostat**
- k16221-73270 7
- K16851-73270 8

Valve, Intake
- K16241-13110 x4

Valve, Exhaust
- K16241-13120 x4

Guide, Valve Intake
- K16261-13540 x4

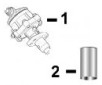
Guide, Valve Exh.
- K16261-13560 x4

Spring, Valve
- K16271-13240 x8 9
- K15261-13240 x8 10

Seal, Valve
- K1C010-13150 x8

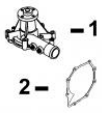
Lock, Valve
- K15261-13980 x8

Oil pump
- K16241-35070



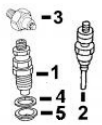
1) **Fuel pump**
- K16241-52030

2) **Repair Sleeve**
- 78RS



1) **Water pump**
- K16251-73034 11
- K16241-73034 12

2) **Gasket, water pump**
- K16239-73430 13
- K16261-73430 14



1) **Injector**
- K16032-53902

2) **Glow Plug**
- K16851-65510

3) **Oil pressure switch**
- K15841-39010

4) **Copper gasket, injector**
- K15841-53622

5) **Heat Shield, Injector**
- K19077-53650

(1): Includes composite head gasket K16282-03310(no gas vents between fire rings)

(2): Composite Material. No gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket.

(3): Composite Material. It does have gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gaske

(4): MLS

(5): 71°C (160° F). Use gasket K16221-73270Flange outside diameter 44mm & inner diameter 22mm (below flange).Total height 40mm

(6): 71°C (160° F). Use gasket K16851-73270Flange outside diameter 38mm & inner diameter 27mm (below flange).Total height 45mm

(7): For thermostat K19434-73014. Installation holes center to center 60mm. Inner Diameter 41mm

(8): For thermostat K1E399-73010. Installation holes center to center 52mm. Inner Diameter 35mm

(9): Free length ≈37.05mm

(10): Free length ≈35.6mm

(11): Impeller diameter 68mm. Use Gasket K16239-73430

(12): Impeller diameter 58mm. Use Gasket K16261-73430

(13): Metal material. Use on water pump K16251-73034 (68mm impeller)

(14): Paper material. Use on water pump 16241-73034 (58mm impeller)

(15): Middle ring is Napier/Hook style ring. There is also available ring set 16292-21050 with a internally stepped middle ring

(16): Middle ring is Napier/Hook style ring. There is also available ring set 16292-21090 with a internally stepped middle ring

(17): Includes composite head gasket K16292-03310(gas vents between fire rings)

(18): Finished Bore

Engine Series:
05

Engine Model:
V1505-T-E3B / V1505-T-EBB

Engine Desc:
V1505-T-E2B

Engine Data:
Indirect Injection Screw-in fuel injector

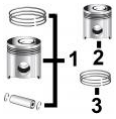
Engine Info:
4 Cyl - Turbocharged

Engine Dimensions:
Bore: 3.07 in / 78mm Stroke: 3.09 in / 78.4mm

SNORKEL

T40RT - Wheeled Telescopic Lift
T46JRT - Wheeled Telescopic Lift

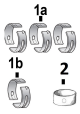
Engine O/H Kit
- KV1505T Std. 1
- KV1505T/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1G993-21774 Std.
- K1G995-21794 0.50 mm

2) **Piston**
- K16292-21115 Std.
- K16292-21915 0.50

3) **Ring Set**
- K16292-21050 Std.
- K16292-21090 0.50



1a) **Main Bearing**
- K16292-23480 Std.
- K16292-23930 0.20 mm
- K16292-23940 0.40 mm

Use 3 Pairs

1b) **Main Bearing**
- K16292-23490 Std
- K16292-23860 0.20 mm
- K16292-23870 0.40 mm

Use 1 Pair

2) **Frt. Crank Bushing**
- K16292-23470 Std.
- K16292-23910 0.20 mm
- K16292-23920 0.40 mm

Use 1

Con Rod Bearing
- K16292-22310 Std.
- K16292-22970 0.20 mm
- K16292-22980 0.40 mm

Use 4 Pairs

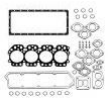
Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

Set of 2 Pairs

1) **Front Seal**
- K16241-04212

2) **Rear Seal**
- K16241-04460

3) **R. Crank Sleeve**
- K16241-23280



1) **Top Gasket Set**
- K07916-27305 1

2) **Bottom Gasket Set**
- K1G089-99365

3) **Head Gasket**
- K16282-03310 2
- K16292-03310 3
- K16394-03313 4

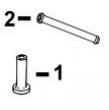
4) **Rocker Cvr. Gasket**
- K16241-14520

5) **Oil Pan**
- K16299-01620

1) **Bushing, Con Rod**
- K1G700-21980 15

2) **Bolt, Con Rod**
- K16241-22142

3) **Connecting Rod**
- K16292-22016



1) **Tappet**
- K1G673-15550

2) **Pushrod**
- K16241-15114

1) **Thermostat**
- K19434-73014 5
- K1E399-73010 6

2) **Gasket, Thermostat**
- k16221-73270 7
- K16851-73270 8

Valve, Intake
- K16241-13110 x4

Valve, Exhaust
- K16241-13120 x4

Guide, Valve Intake
- K16261-13540 x4

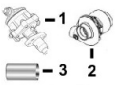
Guide, Valve Exh.
- K16261-13560 x4

Spring, Valve
- K16271-13240 x8 9
- K15261-13240 x8 10

Seal, Valve
- K1C010-13150 x8

Lock, Valve
- K15261-13980 x16

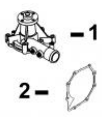
Oil pump
- K16241-35070



1) **Fuel pump**
- K16241-52030

2) **Turbocharger**
- K16292-17016

3) **Repair Sleeve**
- 78RS



1) **Water pump**
- K16251-73034 11
- K16241-73034 12

2) **Gasket, water pump**
- K16239-73430 13
- K16261-73430 14

1) **Injector**
- K16032-53902

2) **Glow Plug**
- K16851-65510

3) **Oil pressure switch**
- K15841-39010

4) **Copper gasket, injector**
- K15841-53622

5) **Heat Shield, Injector**
- K19077-53650

(1): Includes composite head gasket K16292-03310(gas vents between fire rings) Other head gaskets available
(2): Composite Material. No gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket.
(3): Composite Material. It does have gas vents between fire rings. It is recommended to replace O-ring K15221-33700 when installing a new composite head gasket
(4): MLS
(5): 71°C (160° F). Use gasket K16221-73270Flange Outside diameter 44mm & inner diameter 22mm (below flange).Total height 40mm
(6): 71°C (160° F). Use gasket K16851-73270Flange outside diameter 38mm & inner diameter 27mm (below flange).Total height 45mm
(7): For thermostat K19434-73014.Installation holes center to center 60mm. Inner Diameter 41mm
(8): For thermostat K1E399-73010.Installation holes center to center 52mm. Inner Diameter 35mm
(9): Free length ≈37.05mm
(10): Free length ≈35.6mm
(11): Impeller diameter 68mm. Use Gasket K16239-73430
(12): Impeller diameter 58mm. Use Gasket K16261-73430
(13): Metal material. Use on water pump K16251-73034 (68mm impeller)
(14): Paper material. Use on water pump 16241-73034 (58mm impeller)
(15): Finished Bore

Engine Series:
02

Engine Model:
V1702

Engine Data:
Indirect Injection Screw-in fuel injector

Engine Info:
4 Cyl

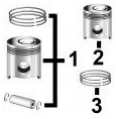
Engine Dimensions:
Bore: 3.228 in / 82 mm Stroke: 3.228 in / 82 mm

Kubota
L1850F - Tractor

Bobcat
733 - Skid Steer Loader
743 - Skid Steer Loader
743B - Skid Steer Loader
743DS - Skid Steer Loader
1600 - Wheel Loader

Genie
Z45/22 - Boom lift

Engine O/H Kit
- KV1702 Std.
- KV1702/50 0.50 mm



1) **Piston & Ring Kit**
- K07916-26630 Std.
- K07916-26640 0.50 mm

Use 4

2) **Piston**
- K15201-21110 Std.
- K15201-21910 0.50

3) **Ring Set**
- K15201-21052 Std.
- K15201-21092 0.50

1) **Main Bearing**
- K17311-23480 Std.
- K17311-23930 0.20 mm
- K17311-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K17311-23470 Std.
- K17311-23910 0.20 mm
- K17311-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K15471-22310 Std.
- K15471-22970 0.20 mm
- K15471-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K07916-28120 Std.

Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

Set of 2 Pairs

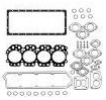
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K15476-23010

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K07916-29695

2) **Bottom Gasket Set**
- K07916-29705

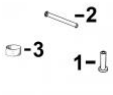
3) **Head Gasket**
- K15766-03310

4) **Rocker Cover Gasket**
- K15471-14520

1) **Bushing, Con Rod**
- K15221-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K15471-22013



1) **Tappet**
- K15221-15550 x8

2) **Pushrod**
- K15221-15110 x8

3) **Cam Bushing**

1) **Thermostat**
- K15321-73010

2) **Switch, Thermostat**
- K33400-75250

Valve, Intake
- K15221-13110 x4

Valve, Exhaust
- K15221-13120 x4

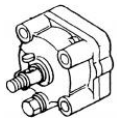
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exh.
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

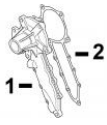
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K15263-52030



1) **Water Pump**
- K15221-73030

2) **Water Pump Gasket**
- K15766-53430

1) **Injector**
- K19202-53020 x4

2) **Glow Plug**
- K15521-65510 x4

3) **Switch, Oil**
- K15841-39010

Liner
- 1) K15201-02310

2) **Cylinder Head**
- K15422-03044UF 1

(1): WITH OUT STEAM HOLES

KUBOTA 03 SERIES V2003-M INDIRECT INJECTION

Engine Series:
03

Engine Model:
V2003-M

Engine Desc:
V2003-M-E2B / V2003-M-E3BG

Engine Data:
Indirect Injection
Screw-in fuel injector
Fuel solenoid on front cover
Crankshaft Main Journal OD: 60 mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.268 in / 83 mm Stroke: 3.638 in / 92.4 mm

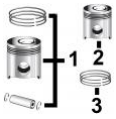
TYMCO

RED-D-ARC

REFORM

WERKE

Engine O/H Kit
- KV2003MW Std.
- KV2003MW/25 0.25 mm



1) **Piston & Ring Kit**
- K1G726-21772 Std.
- K1G726-21782 0.25 mm

Use 4

2) **Piston**
- K1A021-21112 Std.
- K1A021-21902 0.25 mm

3) **Ring Set**
- K1G464-21050 Std.
- K1G464-21090 0.25 mm

1) **Main Bearing**
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K1G856-23570 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

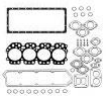
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G468-99350

2) **Bottom Gasket Set**
- K1G486-99360

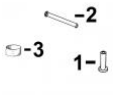
3) **Head Gasket**
- K1G770-03312 1.20

4) **Rocker Cover Gasket**
- K1G911-14523

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K19013-15110 x8

3) **Cam Bushing**

1) **Thermostat**
- K1A021-73012

2) **Switch, Thermostat**
- K31351-32830

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16484-13120 x4

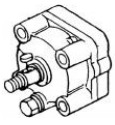
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

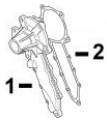
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030



1) **Water Pump**
- K1A051-73032

2) **Gasket, Water Pump**
- K1A051-73430

1) **Injector**
- K16454-53900 x4

2) **Glow Plug**
- K19077-65510 x4

3) **Switch, Oil**
- K15841-39010

Repair Sleeve
- 83RS

Engine Series:
03

Engine Model:
V2003-M-TEB

Engine Desc:
V2003-M-T-E2B / V2003-M-T-E3B

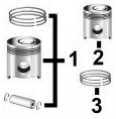
Engine Data:
Indirect Injection
Screw-in fuel injector
Fuel solenoid on front cover
Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.268 in / 83 mm Stroke: 3.638 in / 92.4 mm

Bobcat
337 - Mini Excavator
341 - Midi Excavator
S160 - Wheel Skid Steer Loader
S185 - Skid Steer Loader
T180 - Compact Track Loader

Engine O/H Kit
- KV2003MTW Std.
- KV2003MTW/25 0.25 mm



1) **Piston & Ring Kit**
- K1G468-21770 Std.
- K1G468-21780 0.25 mm

Use 4

2) **Piston**
- K1G624-21110 Std.
- K1G624-21900 0.25 mm

3) **Ring Set**
- K1A024-21050 Std.
- K1A024-21090 0.25 mm

1) **Main Bearing**
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K1G856-23570 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

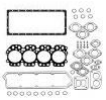
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G468-99350

2) **Bottom Gasket Set**
- K1G486-99360

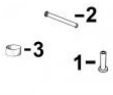
3) **Head Gasket**
- K1G770-03602 1.15
- K1G770-03312 1.20
- K1G770-03612 1.25
- K1G770-03622 1.30
- K1G770-03632 1.35

4) **Rocker Cover Gasket**
- K1G911-14523

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K19013-15110 x8

3) **Cam Bushing**

1) **Thermostat**
- K1A021-73012

2) **Switch, Thermostat**

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16419-13120 x4

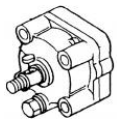
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

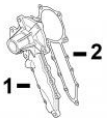
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030



1) **Water Pump**
- K1G489-73030

2) **Water Pump Gasket**
- K1A051-73430

1) **Injector**
- K16419-53905 x4

2) **Glow Plug**
- K19077-65510 x4

3) **Switch, Oil**
- K15841-39010

Repair Sleeve
- 83RS

Engine Series:
03

Engine Model:
V2003-M-DI-T-E2B

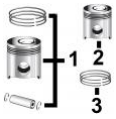
Engine Data:
Direct Injection
Pencil fuel injector
Fuel solenoid on front cover
Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.268 in / 83 mm Stroke: 3.638 in / 92.4 mm

Bobcat
341 - Midi Excavator
435ZHS - Mini Excavator
S185 (Series 52 y 53) - Skid Steer Loader
5600 TURBO - Toolcat
S160 - Skid Steer Loader
T180 - Compact track Loader
T190 - Compact track Loader

Engine O/H Kit
- KV2003MDITW Std.
- KV2003MDITW/25 0.25 mm



1) **Piston & Ring Kit**
- K1G770-21772 Std.
- K1G770-21782 0.25 mm

Use 4

2) **Piston**
- K1G770-21112 Std.
- K1G770-21902 0.25 mm

3) **Ring Set**
- K1A024-21050 Std.
- K1A024-21092 0.25 mm

1) **Main Bearing**
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

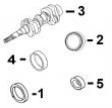
Use 4 Pairs

2) **Kit Metal, Engine**
- K1G856-23570 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Use 4 Pairs

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs



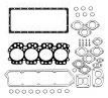
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G468-99350

2) **Bottom Gasket Set**
- K1G486-99360

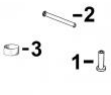
3) **Head Gasket**
- K1G770-03602 1.15
- K1G770-03312 1.20
- K1G770-03612 1.25
- K1G770-03622 1.30
- K1G770-03632 1.35

4) **Rocker Cover Gasket**
- K1G911-14523

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K19013-15110 x8

3) **Cam Bushing**

1) **Thermostat**
- K1E401-73010

2) **Switch, Thermostat**

Valve, Intake
- K1G852-13112 x4

Valve, Exhaust
- K1G852-13122 x4

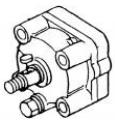
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K1G896-13240 x8

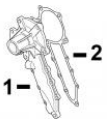
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



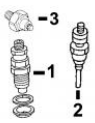
Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030



1) **Water Pump**
- K1G489-73030

2) **Gasket, Water Pump**
- K1A051-73430



1) **Injector**
- K1G730-53000 x4

2) **Glow Plug**
- K1G852-65510 x4

3) **Switch, Oil**
- K15841-39010

1) **Repair Sleeve**
- 83RS

2) **Turbocharger**
- K1G923-17013 1
- K1J700-17012 1

(1): Check application for proper usage.

KUBOTA 03 SERIES V2003-T INDIRECT INJECTION

Engine Series:
03

Engine Model:
V2003-T

Engine Desc:
V2003-T-EB

Engine Data:
Indirect Injection
Screw-in fuel injector
Fuel solenoid on injection pump
Crankshaft Main Journal OD: 52mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.268 in / 83 mm Stroke: 3.638 in / 92.4 mm

Bobcat

773 TURBO - Skid Steer
773 500K - Wheel Skid Steer Loader
S160 (2002) - Compact Track Loader
S185 (2002) - Wheel Skid Steer Loader
331 (2000) - Midi Excavator
337 (2001) - Mini Excavator
341 (2000) - Midi Excavator
T180 - Skid Steer Loader
T190 - Skid Steer Loader

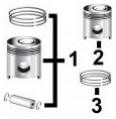
Princeton

PB50 - Forklift
PB65 - Forklift

Thomas

T175 - Compact track loader

Engine O/H Kit
- KV2003TN Std.
- KV2003TN/50 0.50 mm



1) **Piston & Ring Kit**
- K16483-21770 Std.
- K16483-21780 0.50 mm

Use 4

2) **Piston**
- K16483-21110 Std.
- K16483-21910 0.50 mm

3) **Ring Set**
- K1G610-21050 Std.
- K1G610-21090 0.50 mm

1) **Main Bearing**
- K17311-23480 Std.
- K17311-23930 0.20 mm
- K17311-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K17311-23470 Std.
- K17311-23910 0.20 mm
- K17311-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K07916-28000 Std.
- K07916-28740 0.20 mm
- K07916-28752 0.40 mm

Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

Set of 2 Pairs

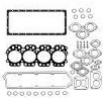
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23010

4) **R. Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



Top Gasket Set
- K1G970-99350

2) **Bottom Gasket Set**
- K1G974-99362

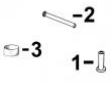
3) **Head Gasket**
- K1E013-03312

4) **Rocker Cover Gasket**
- K15471-14520

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K19013-15110 x8

3) **Cam Bushing**

1) **Thermostat**
- K19434-73014

2) **Switch, Thermostat**

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16419-13120 x4

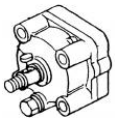
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

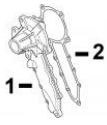
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030



1) **Water Pump**
- K1E017-73030 1

2) **Gasket, Water Pump**
- K15766-73430

1) **Injector**
- K16454-53900 1
- K16419-53900 1

2) **Glow Plug**
- K19077-65510

3) **Oil Switch**
- K15841-39010

1) **Repair Sleeve**
- 83RS

2) **Turbocharger**
- K1G622-17016 1
- K1J700-17012 1

(1): Check application for proper usage.

KUBOTA 03 SERIES V2003-T INDIRECT INJECTION

Engine Series:
03

Engine Model:
V2003-T-EBB / V2003-T-BG

Engine Desc:
V2003-T-E2B / V2003-T-E2BG

Engine Data:
Indirect Injection
Screw-in fuel injector
Fuel solenoid on injection pump
Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

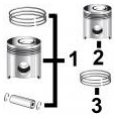
Engine Dimensions:
Bore: 3.268 in / 83 mm Stroke: 3.638 in / 92.4 mm

Thomas
T185 - Skid Steer Loader
T205 - Skid Steer Loader

Toro
Groundsmaster 4100D - Rotary Mower

Bobcat
773 500K - Wheel Skid Steer Loader
S185 (2002) - Wheel Skid Steer Loader
S160 (2002) - Compact Track Loader
331 (2000) - Midi Excavator
341 (2000) - Midi Excavator
337 (2001) - Mini Excavator
T180 - Skid Steer Loader
T190 - Skid Steer Loader

Engine O/H Kit
- KV2003TW Std.
- KV2003TW/50 0.50 mm



1) **Piston & Ring Kit**
- K16483-21770 Std.
- K16483-21780 0.50 mm

Use 4

2) **Piston**
- K16483-21110 Std.
- K16483-21910 0.50 mm

3) **Ring Set**
- K1G610-21050 Std.
- K1G610-21090 0.50 mm

1) **Main Bearing**
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K1G856-23570 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

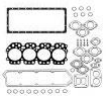
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G970-99350

2) **Bottom Gasket Set**
- K1G974-99362

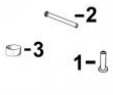
3) **Head Gasket**
- K1E013-03312

4) **Rocker Cover Gasket**
- K15471-14520

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K19013-15110 x8

3) **Cam Bushing**

1) **Thermostat**
- K19434-73014

2) **Switch, Thermostat**

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16419-13120 x4

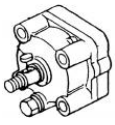
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

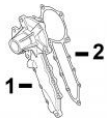
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030



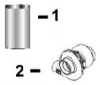
1) **Water Pump**
- K1E017-73030 1

2) **Gasket, Water Pump**
- K15766-73430

1) **Injector**
- K16454-53900 1
- K16419-53900 1

2) **Glow Plug**
- K19077-65510

3) **Oil Switch**
- K15841-39010



1) **Repair Sleeve**
- 83RS

2) **Turbocharger**
- K1G622-17016

(1): Check application for proper usage.

KUBOTA 03 SERIES V2203-M-DI / V2403-M-DI DIRECT INJECTION

Engine Series:
03

Engine Model:
V2203-M-DI / V2403-M-DI

Engine Desc:
V2203-M-DI-E2B / V2403-M-DI-E2B / V2403-M-DI-E3B

Engine Data:
Direct Injection
Pencil fuel injector
Fuel solenoid on front cover
Crankshaft Main Journal OD: 60mm

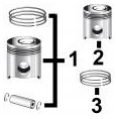
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.425 in / 87 mm V2203
Stroke: 3.638 in / 92.4 mm V2403
Stroke: 4.016 in / 102 mm

Bobcat

331E - Mini Excavator
334 - Mini Excavator
335 - Mini Excavator
430ZHS - Compact Excavator
430ZHS FAST TRACK - Compact Excavator
430ZHS CONV. - Compact Excavator
5600 - Toolcat
S130 - Skid Steer Loader
S150 - Skid Steer Loader
S175 - Skid Steer Loader
S185 - Skid Steer Loader
S205 - Skid Steer Loader
S510 - Skid Steer Loader
T140 - Multi Terrain Loader
T190 - Multi Terrain Loader
S530 - Skid Steer Loader
S450 - Skid Steer Loader

Engine O/H Kit
- KV2203MDIW Std. 1
- KV2203MDIW/25 0.25 mm 1



1) **Piston & Ring Kit**
- K1G796-21772 Std.
- K1G796-21782 0.25 mm

Use 4

2) **Piston**
- K1G796-21112 Std.
- K1G796-21902 0.25 mm

3) **Ring Set**
- K1G790-21053 Std.
- K1G790-21092 0.25 mm

1) **Main Bearing**
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

2) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K1G856-23750 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

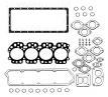
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G465-99350 1

2) **Bottom Gasket Set**
- K1G486-99360

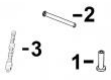
3) **Head Gasket**
- K1G790-03602 1.15
- K1G790-03310 1.20
- K1G790-03612 1.25 / 2 notch 1
- K1G790-03622 1.30 / 3 notch 1
- K1G790-03632 1.35 / 4 notch 1

4) **Rocker Cover Gasket**
- K1G911-14523

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K1A091-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1A021-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1G852-13112 x4

Valve, Exhaust
- K1G852-13122 x4

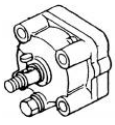
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

Seal, Valve
- K15221-13153 x8

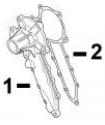
Lock, Valve
- K15221-13980 x16



1) **Oil Pump**
- K15471-35013

2) **Oil Cooler**
- K1G896-37012 3

Fuel Lift Pump
- K17121-52030



1) **Water Pump**
- K1G730-73035 2
- K1A021-73030 2

2) **Water Pump Gasket**
- K1A051-73430 4
- K1A021-73430 5

1) **Injector**
- K1G796-53000 x4

2) **Glow Plug**
- K1G852-65510 x4

3) **Switch, Oil**
- K15841-39010

Repair Sleeve
- 87RS

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.
(2): Check application for proper usage.
(3): Donut style, 7 plates, ports are 120° apart
(4): Water Pump Gasket for K1G730-73035.
(5): Water Pump Gasket for K1A021-73030.

KUBOTA 03 SERIES V2203 INDIRECT INJECTION

Engine Series:
03

Engine Model:
V2203

Engine Desc:
V2203-BG

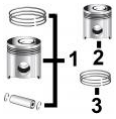
Engine Data:
Indirect Injection Screw-in fuel injector. Crankshaft Main Journal OD: 52mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.425 in / 87 mm Stroke: 3.638 in / 92.4 mm

Please see page **659** for a complete list of equipment models.

Engine O/H Kit
- KV2203N Std.
- KV2203N/50 0.50 mm



1) **Piston & Ring Kit**
- K19077-21772 Std.
- K19077-21782 0.50 mm

Use 4

2) **Piston**
- K19077-21112 Std.
- K19077-21912 0.50 mm

3) **Ring Set**
- K17331-21050 Std.
- K17331-21090 0.50 mm

1) **Main Bearing**
- K17311-23480 Std.
- K17311-23930 0.20 mm
- K17311-23940 0.40 mm

Use 4 Pairs

2) **Front Crank Bushing**
- K17311-23470 Std.
- K17311-23910 0.20 mm
- K17311-23920 0.40 mm

Use 1

1) **Con Rod Bearing**
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

2) **Kit Metal, Engine**
- K07916-28000 Std.
- K07916-28740 0.20 mm
- K07916-28752 0.40 mm

Thrust Washer
- K15521-23530/40 Std.
- K15521-23950/70 0.20 mm
- K15521-23960/80 0.40 mm

Set of 2 Pairs

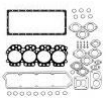
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23010

4) **Rear Crank Bushing**
- K19202-23280

5) **Front Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K07916-29505

2) **Bottom Gasket Set**
- K07916-29515

3) **Head Gasket**
- K19077-03310

4) **Rocker Cover Gasket**
- K15471-14520

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010

1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K19013-15110 x8

3) **Camshaft**
- K17343-16010

1) **Thermostat**
- K19434-73014

2) **Thermostat Gasket**
- K16221-73270

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16484-13120 x4

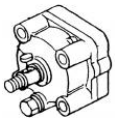
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

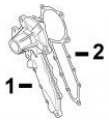
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030 1
- K16604-52032 1



1) **Water Pump**
- K15521-73035

2) **Gasket, Water Pump**
- K15766-73430

1) **Injector**
- K16454-53900 x4

2) **Glow Plug**
- K19077-65510 x4

3) **Switch, Oil**
- K15841-39010

4) **Cylinder Head**
- K19077-03048UF 1

Repair Sleeve
- 87RS

(1): Check application for proper usage.

KUBOTA 03 SERIES V2203-E2B INDIRECT INJECTION

Engine Series:
03

Engine Model:
V2203-E2B

Engine Desc:
V2203-E2BG

Engine Data:
Indirect Injection Screw-in fuel injector. Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.425 in / 87 mm Stroke: 3.638 in / 92.4 mm

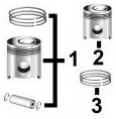
Bobcat

331 - Midi Excavator
334 - Mini Excavator
337 - Mini Excavator
341 - Midi Excavator
763H - Skid Steer Loader
773 - Skid Steer Loader
5600 - Toolcat
7753 - Skid Steer Loader
B300 - Backhoe Loader
D300 - Skid Steer Loader
S175 (2002) - Skid Steer Loader
S150 (2002) - Skid Steer Loader
S185 - Skid Steer Loader

Kubota

L4300 - Tractor
L4310 - Tractor
KX121 - Mini Excavator
KX161 - Mini Excavator
KJ-T210VX - Generator

Engine O/H Kit
- KV2203W Std.
- KV2203W/50 0.50 mm



Piston & Ring Kit
- K19077-21772 Std.
- K19077-21782 0.50 mm

Use 4

2) Piston
- K19077-21112 Std.
- K19077-21912 0.50 mm

3) Ring Set
- K17331-21050 Std.
- K17331-21090 0.50 mm

Main Bearing
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) Frt. Crank Bushing
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

Con Rod Bearing
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

Kit Metal, Engine
- K1G856-23750 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Set of 2 Pairs

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

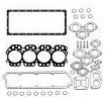
1) Front Seal
- K19202-04140

2) Rear Seal
- K19202-04460

3) Crankshaft
- K16641-23020

4) R. Crank Bushing
- K19202-23280

5) Frt. Crank Collar
- K19202-23250



1) Top Gasket Set
- K1G975-99350

2) Bottom Gasket Set
- K1G486-99360

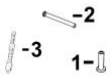
3) Head Gasket
- K19077-03310

4) Rocker Cvr. Gasket
- K1G911-14520

1) Bushing, Con Rod
- K17331-21980 x4

2) Bolt, Con Rod
- K1J700-22140 x8

3) Connecting Rod
- K17311-22010



1) Tappet
- K15601-15550 x8

2) Pushrod
- K19013-15110 x8

3) Camshaft
- K17343-16010

1) Thermostat
- K19434-73014

2) Thermostat Gasket
- K16221-73270

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16484-13120 x4

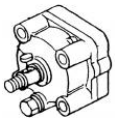
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exh.
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

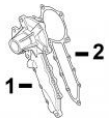
Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



Oil Pump
- K15471-35013

Fuel Lift Pump
- K17121-52030 1
- K16604-52032 1



1) Water Pump
- K15521-73035

2) Gasket. water pump
- K15766-73430

1) Injector
- K16454-53900 x4

2) Glow Plug
- K19077-65510 x4

3) Switch, Oil
- K15841-39010

4) Cylinder Head
- K19077-03048UF 1

Repair Sleeve
- 87RS

(1): Check application for proper usage.

KUBOTA 03 SERIES V2203-M / V2403-M INDIRECT INJECTION

Engine Series:
03

Engine Model:
V2203-M / V2403-M

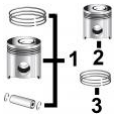
Engine Desc:
V2203-M-E2B / V2203-M-E3B / V2203-M-E3BG / V2403-M-E2B / V2403-M-E3B / V2403-M-E3BG

Engine Data:
Indirect Injection
Screw-in fuel injector.
Fuel solenoid on front cover
Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.425 in / 87 mm Stroke: 3.638 in / 92.4 mm 4.016 in / 102 mm

Engine O/H Kit
- KV2203MW Std. 1
- KV2203MW/25 0.25 mm 1



Piston & Ring Kit
- K1G466-21772 Std.
- K1G466-21782 0.25 mm

Use 4

2) **Piston**
- K1G466-21110 Std.
- K1G466-21900 0.25 mm

3) **Ring Set**
- K1A091-21050 Std.
- K1A091-21090 0.25 mm

Main Bearing
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Frt. Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

Con Rod Bearing
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

Kit Metal, Engine
- K1G856-23750 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

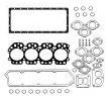
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **R. Crank Bushing**
- K19202-23280

5) **Frt. Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G465-99350 1

2) **Bottom Gasket Set**
- K1G486-99360

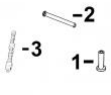
3) **Head Gasket**
- K1G790-03602 1.15
- K1G790-03310 1.20
- K1G790-03612 1.25 / 2 notch 1
- K1G790-03622 1.30 / 3 notch 1
- K1G790-03632 1.35 / 4 notch 1

4) **Rocker Cvr. Gasket**
- K1G911-14523

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K1A091-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1A021-73010

2) **Gasket, Thermostat**

Kubota

L4400DT - Compact Utility Tractor
L4740 - Loader
L5240 - Compact Utility Tractor

Ausa

C200H - Forklift
C250H - Forklift
C300H - Forklift
D250A - Dumper
D350A - Dumper
D400A - Dumper
T204H - Telehandler
T235H - Telehandler
BD202HL - Sweeper

Valve, Intake
- K16484-13110 x4

Valve, Exhaust
- K16484-13120 x4

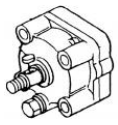
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

Seal, Valve
- K15221-13153 x8

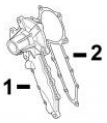
Lock, Valve
- K15221-13980 x16



1) **Oil Pump**
- K15471-35013

2) **Oil Cooler**
- K1G896-37012 3

Fuel Lift Pump
- K17121-52030 2
- K16604-52032 2



1) **Water Pump**
- K1G730-73035 2
- K1A051-73032 2
- K1A021-73030 2

2) **Water Pump Gasket**
- K1A051-73430 4
- K1A021-73430 5

1) **Injector**
- K16454-53900 2
- K16419-53900 2

2) **Glow Plug**
- K19077-65510

3) **Switch, Oil**
- K15841-39010

Repair Sleeve
- 87RS

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.
(2): Check application for proper usage.
(3): Donut style, 7 plates, ports are 120° apart
(4): Water Pump Gasket for K1G730-73035 and K1A051-73032
(5): Water Pump Gasket for K1A021-73030.

Engine Series:
03

Engine Model:
V2403-M-DI-T

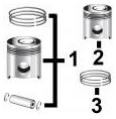
Engine Data:
Direct Injection Pencil fuel injector. Fuel solenoid on front cover Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.425 in / 87 mm Stroke: 4.016 in / 102 mm

Bobcat
S205 - Skid Steer Loader
T190 - Multi Terrain Loader

Engine O/H Kit
- KV2403MDITW Std. 1
- KV2403MDITW/25 0.2 mm 1

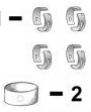


Piston & Ring Kit
- K1G924-21772 Std.
- K1G924-21782 0.25 mm

Use 4

2) **Piston**
- K1G924-21112 Std.
- K1G924-21902 0.25 mm

3) **Ring Set**
- K1G924-21052 Std.
- K1G924-21090 0.25 mm



Main Bearing
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Frt. Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

Con Rod Bearing
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

Kit Metal, Engine
- K1G856-23750 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Use 4 Pairs

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

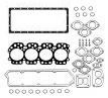
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K1G851-23012

4) **R. Crank Bushing**
- K19202-23280

5) **Frt. Crank Collar**
- K19202-23250

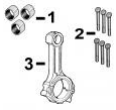


1) **Top Gasket Set**
- K1G465-99350 1

2) **Bottom Gasket Set**
- K1G486-99360

3) **Head Gasket**
- K1G790-03602 1.15
- K1G790-03310 1.20
- K1G790-03612 1.25 / 2 notch 1
- K1G790-03622 1.30 / 3 notch 1
- K1G790-03632 1.35 / 4 notch 1

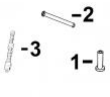
4) **Rocker Cvr. Gasket**
- K1G911-14523



1) **Bushing, Con Rod**
- K1G924-21980

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K1G924-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K1A091-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1G924-73010

2) **Gasket, Thermo**

Valve, Intake
- K1G852-13112 x4

Valve, Exhaust
- K1G852-13122 x4

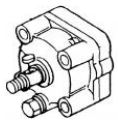
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exh.
- K17321-13560 x4

Spring, Valve
- K1G896-13240 x8

Seal, Valve
- K15221-13153 x8

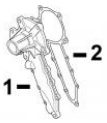
Lock, Valve
- K15221-13980 x16



Oil Pump
- 1) K15471-35013 2

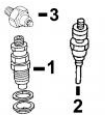
2) **Oil Cooler**
- K1G896-37012 3

1) **Fuel Lift Pump**
- K17121-52030



1) **Water pump**
- K1G730-73035 2
- K1A021-73030 2

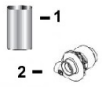
2) **Water Pump Gasket**
- K1A051-73430 4
- K1A021-73430 5



1) **Injector**
- K1G924-53000 x4

2) **Glowplug**
- K1G852-65510 x4

3) **Switch, Oil**
- K15841-39010



Liner
- 87RS

2) **Turbocharger**
- K1G924-17012

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.
(2): Check application for proper usage.
(3): Donut style, 7 plates, ports are 120° apart
(4): Water Pump Gasket for K1G730-73035.
(5): Water Pump Gasket for K1A021-73030.

KUBOTA 03 SERIES V2403-M-T-E3B DIRECT INJECTION

Engine Series:
03

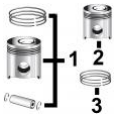
Engine Model:
V2403-M-T-E3B

Engine Data:
Direct Injection
Pencil fuel injector.
Fuel solenoid on front cover
Crankshaft Main Journal OD: 60mm

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.425 in / 87 mm Stroke: 4.016 in / 102 mm

Engine O/H Kit
- KV2403MTW Std. 1
- KV2403MTW/25 0.25 mm 1



Piston & Ring Kit
- K1J403-21772 Std.
- K1J403-21782 0.25 mm

Use 4

2) **Piston**
- K1J403-21110 Std.
- K1J403-21900 0.25 mm

3) **Ring Set**
- K1G924-21052 Std.
- K1G924-21090 0.25 mm

Main Bearing
- K1A091-23480 Std.
- K1A091-23930 0.20 mm
- K1A091-23940 0.40 mm

Use 4 Pairs

2) **Frt. Crank Bushing**
- K1A091-23470 Std.
- K1A091-23910 0.20 mm
- K1A091-23920 0.40 mm

Use 1

Con Rod Bearing
- K17311-22310 Std.
- K17311-22970 0.20 mm
- K17311-22980 0.40 mm

Use 4 Pairs

Kit Metal, Engine
- K1G856-23750 Std.
- K1G856-23760 0.20 mm
- K1G856-23770 0.40 mm

Use 4 Pairs

Thrust Washer
- K1A091-23530/40 Std.
- K1A091-23950/70 0.20 mm
- K1A091-23960/80 0.40 mm

Set of 2 Pairs

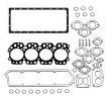
1) **Front Seal**
- K19202-04140

2) **Rear Seal**
- K19202-04460

3) **Crankshaft**
- K16641-23020

4) **R. Crank Bushing**
- K19202-23280

5) **Frt. Crank Collar**
- K19202-23250



1) **Top Gasket Set**
- K1G465-99350 1

2) **Bottom Gasket Set**
- K1G486-99360

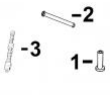
3) **Head Gasket**
- K1G790-03602 1.15
- K1G790-03310 1.20
- K1G790-03612 1.25 / 2 notch 1
- K1G790-03622 1.30 / 3 notch 1
- K1G790-03632 1.35 / 4 notch 1

4) **Rocker Cover Gasket**
- K1G911-14523

1) **Bushing, Con Rod**
- K17331-21980 x4

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K17311-22010



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K1A091-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1A021-73010

2) **Gasket, Thermo**

Valve, Intake
- K1G852-13112 x4

Valve, Exhaust
- K1G852-13122 x4

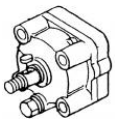
Guide, Valve Intake
- K17321-13580 x4

Guide, Valve Exhaust
- K17321-13560 x4

Spring, Valve
- K15221-13240 x8

Seal, Valve
- K15221-13153 x8

Lock, Valve
- K15221-13980 x16



1) **Oil Pump**
- K15471-35013

2) **Oil Cooler**
- K1G896-37012 3

Fuel Lift Pump
- K17121-52030

1) **Water Pump**
- K1G730-73035 2
- K1A021-73030 2

2) **Water Pump Gasket**
- K1A051-73430 4
- K1A021-73430 5

1) **Injector**
- x4

2) **Glowplug**
- K1G852-65510 x4

3) **Switch, Oil**
- K15841-39010

Repair Sleeve
- 87RS

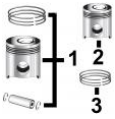
(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.
(2): Check application for proper usage.
(3): Donut style, 7 plates, ports are 120° apart
(4): Water Pump Gasket for K1G730-73035.
(5): Water Pump Gasket for K1A021-73030.

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
07	V2607-DI-E3B	Direct Injection	4 Cyl	Bore: 3.43 in / 87 mm Stroke: 4.33 in / 110 mm

Kubota

KX057-4 - Excavator
S185 - Skid Steer
U55 - Excavator

Engine O/H Kit
- KV2607DI Std. 1
- KV2607DI/25 0.25 mm 1



1) **Piston & Ring Kit**
- K1J701-21772 Std.
- K1J701-21782 0.25 mm

2) **Piston**
- K1J701-21112 Std.
- K1J701-21902 0.25 mm

3) **Ring Set**
- K1J700-21050 Std.
- K1J700-21090 0.25 mm

Main Bearing
- K1J700-23470 Std.
- K1J700-23910 0.20 mm
- K1J700-23920 0.40 mm

5 pairs per engine

Con Rod Bearing
- K1J700-22310 Std.
- K1J700-22970 0.20 mm
- K1J700-22980 0.40 mm

4 pairs per engine

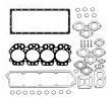
Thrust Washer Set
- K1J700-23530/40 Std.
- K1J700-23950/70 0.20 mm
- K1J700-23960/80 0.40 mm

Set of 2 Pairs

1) **Crankshaft**
- K1J700-23010

2) **Front Seal**
- K1C020-04140

3) **Rear Seal**
- K1J700-04460



Top Gasket Set
- K1J700-99350 1

Bottom Gasket Set
- K1J700-99362 3

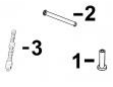
Head Gasket
- K1J700-03310 1.1 mm
- K1J700-03320 1.2 mm
- K1J700-03330 1.3 mm

Rocker Cover Gasket
- K1J700-14520

1) **Bushing, Con Rod**
- K1J700-21980 x8

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K1J700-22012



1) **Tappet**
-

2) **Pushrod**

1) **Thermostat**
- K1G772-73010

2) **Temp, Sensor**

Valve, Intake
- K1J700-13110

Valve, Exhaust
- K1J700-13120

Guide, Valve Intake
- K1J700-13540

Guide, Valve Exh.
- K1J700-13560

Spring, Valve
- K1J700-13240

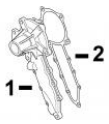
Seal, Valve
- K1C010-13150

Switch, Oil Pressure
- K15841-39010

Oil Pump Rotor Set
- K1J700-35480/90

1) **Fuel Lift Pump**
- K1J710-52030

2) **Oil Cooler**
- K1J700-37012



1) **Water Pump**
- K1J700-73030

2) **Water Pump Gasket**
- K1J700-73430

1) **Glow Plug**
- K1J700-65510 x4

2) **Seals, Glow Plug**
- K1G772-65500

1) **Injector**
- K1J700-53000

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.
(3): Includes crankshaft seals

(2): Donut style, 8 plates, ports are 90° apart

Engine Series:	Engine Model:	Engine Data:	Engine Info:	Engine Dimensions:
07	V2607-DI-T-E3B	Direct Injection, Turbocharged	4 Cyl	Bore: 3.43 in / 87 mm Stroke: 4.33 in / 110 mm

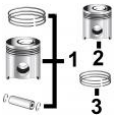
BOBCAT:

S160
S185
S205
S550
S570
S590
T180
T190
T550
T590

KUBOTA:

U55
U48
RO82
KX057-4

Engine O/H Kit
- KV2607DIT Std. 1
- KV2607DIT/25 0.25 mm 1



1) **Piston & Ring Kit**
- K1J700-21772 Std.
- K1J700-21782 0.25 mm

2) **Piston**
- K1J700-21110 Std.
- K1J700-21903 0.25 mm

3) **Ring Set**
- K1J700-21050 Std.
- K1J700-21090 0.25 mm

Main Bearing
- K1J700-23470 Std.
- K1J700-23910 0.20 mm
- K1J700-23920 0.40 mm

5 Pairs per engine

Con Rod Bearing
- K1J700-22310 Std.
- K1J700-22970 0.20 mm
- K1J700-22980 0.40 mm

4 Pairs per engine

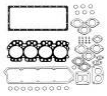
Thrust Washer Set
- K1J700-23530/40 Std.
- K1J700-23950/70 0.20 mm
- K1J700-23960/80 0.40 mm

Set of 2 Pairs

1) **Crankshaft**
- K1J700-23010

2) **Front Seal**
- K1C020-04140

3) **Rear Seal**
- K1J700-04460



Top Gasket Set
- K1J700-99350 1

Bottom Gasket Set
- K1J700-99362 3

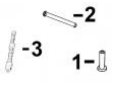
Head Gasket
- K1J700-03310 1.1 mm
- K1J700-03320 1.2 mm
- K1J700-03330 1.3 mm

Rocker Cover Gasket
- K1J700-14520

1) **Bushing, Con Rod**
- K1J700-21980 x8

2) **Bolt, Con Rod**
- K1J700-22140 x8

3) **Connecting Rod**
- K1J700-22012



1) **Tappet**
- K1J772-15550 x8

2) **Pushrod**
- K1J700-15110 x8

1) **Thermostat**
- K1G772-73010

2) **Temp, Sensor**

Valve, Intake
- K1J700-13110 x8

Valve, Exhaust
- K1J700-13120 x8

Guide, Valve Intake
- K1J700-13540

Guide, Valve Exh.
- K1J700-13560

Spring, Valve
- K1J700-13240 x16

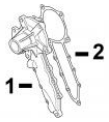
Seal, Valve
- K11420-13150

Switch, Oil Pressure
- K15841-39010

Oil Pump Rotor Set
- K1J700-35480/90

1) **Fuel Lift Pump**
- K1J710-52030

2) **Oil Cooler**
- K1J700-37012



1) **Water Pump**
- K1J700-73030

2) **Water Pump Gasket**
- K1J700-73430

1) **Glow Plug**
- K1J700-65510 x4

1) **Injector**
- K1J700-53000

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.
(2): Donut style, 8 plates, ports are 90° apart
(3): Includes crankshaft seals

Engine Series:
V3

Engine Model:
V3300 V3300-E2B

Engine Desc:
V3300-BG / V3300-E2BG / V3300-E3BG / V3300-T-E2B

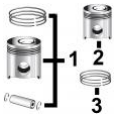
Engine Data:
Indirect Injection Screw-in fuel injector

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.858 in / 98 mm Stroke: 4.331 in / 110 mm

Kubota
M8200 - Tractor

Engine O/H Kit
- KV3300 Std. 1
- KV3300/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1G563-21772 Std.
- K1G563-21792 0.50 mm

Use 4

2) **Piston**
- K1C041-21110 Std.
- K1C041-21910 0.50 mm

3) **Ring Set**
- K1C011-21050 Std.
- K1C011-21090 0.50 mm

Main Bearing
- K1C020-23470 Std.
- K1C020-23910 0.20 mm
- K1C020-23920 0.40 mm

Use 5 Pairs

Con Rod Bearing
- K1C020-22312 Std.
- K1C020-22962 0.20 mm
- K1C020-22972 0.40 mm

Use 4 Pairs

Thrust Washer
- K1C010-23530/40 Std.
- K1C010-23950/70 0.20 mm
- K1C010-23960/80 0.40 mm

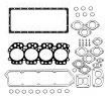
Set of 2 Pairs

1) **Front Seal**
- K1C020-04140

2) **Rear Seal**
- K1C010-04460

3) **Crankshaft**
- K1C020-23012

4) **Rear Crank Bushing**
- K1C020-23300



1) **Top Gasket Set**
- K1G563-99350 1

2) **Bottom Gasket Set**
- K1G533-99360

3) **Head Gasket**
- K1C020-03312 0.80 / 2 notch
- K1C020-03602 0.90 / 1 notch
- K1C020-03612 0.95 / 0 notch

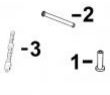
4) **Rocker Cover Gasket**
- K1C010-14520
- K1C020-14520

5) **Liquid Gasket**
- K70000-73764

1) **Bushing, Con Rod**
- K1C010-21980 x8

2) **Bolt, Con Rod**
- K1C010-22142 x8

3) **Connecting Rod**
- K1C020-22014



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K1C010-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1C011-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1C010-13110 x8

Valve, Exhaust
- K1C010-13120 x4

Guide, Valve - Intake
- K16261-13540 x8

Guide, Valve - Exhaust
- K17321-13560 x4

Lock, Intake Valve
- K15261-13980 x16

Lock, Exhaust Valve
- K15221-13980 x8

Spring, Valve - Exhaust
- K15221-13240 x4

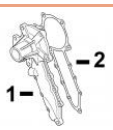
Spring, Valve - Intake
- K1C010-13240 x8

Seal, Valve - Intake
- K15221-13153 x4

Seal, Valve - Exhaust
- K15221-13153 x4

Oil Pump Kit (Rotor Set)
- K1C010-35070

Fuel Lift Pump
- K1C010-52030



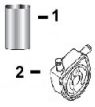
1) **Water Pump**
- K1C010-73032

2) **Water Pump Gasket**
- K1C010-73430

1) **Injector**
- K1C010-53900 x4

2) **Glow Plug**
- K16415-65510 x4

3) **Switch, Oil**
- K15841-39010



1) **Repair Sleeve**
- 98RS

2) **Oil Cooler**
- K1J550-37010 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper usage.

Engine Series:
V3

Engine Model:
V3300-DI
V3300-DI-T

Engine Desc:
V3300-DI-B / V3300-DI-TB / V3300-DI-E2B / V3300-DI-T-E2B

Engine Data:
Direct Injection Pencil fuel injector

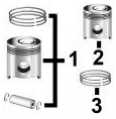
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.858 in / 98 mm Stroke: 4.331 in / 110 mm

Bobcat

A300 - Skid Steer Loader
S220 - Skid Steer Loader
S250 - Skid Steer Loader
S300 - Skid Steer Loader
T250 - Multi Terrain Loader
T300 - Multi Terrain Loader

Engine O/H Kit
- KV3300DI Std. 1
- KV3300DI/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1G556-21774 Std.
- K1G556-21794 0.50 mm

Use 4

2) **Piston**
- K1G557-21110 Std.
- K1G557-21910 0.50 mm

3) **Ring Set**
- K1C020-21050 Std.
- K1C020-21090 0.50 mm

Main Bearing
- K1C020-23470 Std.
- K1C020-23910 0.20 mm
- K1C020-23920 0.40 mm

Use 5 Pairs

Con Rod Bearing
- K1C020-22312 Std.
- K1C020-22962 0.20 mm
- K1C020-22972 0.40 mm

Use 4 Pairs

Thrust Washer
- K1C010-23530/40 Std.
- K1C010-23950/70 0.20 mm
- K1C010-23960/80 0.40 mm

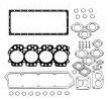
Set of 2 Pairs

1) **Front Seal**
- K1C010-04140

2) **Rear Seal**
- K1C010-04460

3) **Crankshaft**
- K1C050-23010

4) **Rear Crank Bushing**
- K1C020-23300



1) **Top Gasket Set**
- K1G556-99352 1

2) **Bottom Gasket Set**
- K1G526-99360

3) **Head Gasket**
- K1C020-03312 0.80 / 2 notch
- K1C020-03602 0.90 / 1 notch
- K1C020-03612 0.95 / 0 notch

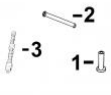
4) **Rocker Cover Gasket**
- K1C010-14520
- K1C020-14520

5) **Liquid Gasket**
- K70000-73764

1) **Bushing, Con Rod**
- K1C010-21980 x4

2) **Bolt, Con Rod**
- K1C010-22142 x8

3) **Connecting Rod**
- K1C020-22014



1) **Tappet**
- K15601-15550 x8

2) **Pushrod**
- K1C010-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1C011-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1C020-13110 x8

Valve, Exhaust
- K1C020-13120 x8

Guide, Valve Intake
- K16261-13540 x8

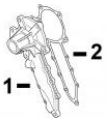
Guide, Valve Exhaust
- K16261-13560 x8

Spring, Valve
- K1C010-13240 x16

Seal, Valve - Intake
- K1C010-13150 x16

Oil Pump Kit (Rotor Set)
- K1C010-35070

Fuel Lift Pump
- K1C010-52030



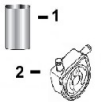
1) **Water Pump**
- K1C010-73032

2) **Water Pump Gasket**
- K1C010-73430

1) **Injector**
- K1G557-53000 x4

2) **Glow Plug**

3) **Switch, Oil**
- K15841-39010



1) **Repair Sleeve**
- 98RS

2) **Oil Cooler**
- K1J550-37010 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper usage.

KUBOTA V3307 DIRECT INJECTION, W/EGR

Engine Series:
07

Engine Model:
V3307-DIT

Engine Desc:
V3307-DI-T-E3B

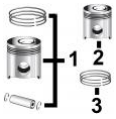
Engine Data:
Direct Injection, W/EGR

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.70 in / 94 mm Stroke: 4.72 in / 120 mm

Please see page **660** for a complete list of equipment models.

Engine O/H Kit
- KV3307DIT Std. 1
- KV3307DIT/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1G777-21682 Std.
- K1G777-21702 0.50 mm

Use 4

2) **Piston**
- K1J751-21120 Std.
- K1J751-21910 0.50 mm

3) **Ring Set**
- K1G772-21050 Std.
- K1G772-21092 0.50 mm

Main Bearing
- K1G777-23402 Std.
- K1G777-23882 0.20 mm
- K1G777-23892 0.40 mm

Use 5 Pairs

Con Rod Bearing
- K1G772-22332 Std.
- K1G772-22972 0.20 mm
- K1G772-22982 0.40 mm

Use 4 Pairs

Thrust Washer
- K1G772-23534/44 Std.

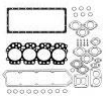
Set of 2 Pairs

1) **Front Seal**
- K1C020-04140

2) **Rear Seal**
- K1G772-04460

3) **Crankshaft**
- K1G777-23010

4) **Oil Pump Drive Gear**
- K1G772-35630



1) **Top Gasket Set**
- K1G777-99353 1

2) **Bottom Gasket Set**
- K1G777-99364

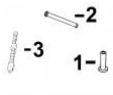
3) **Head Gasket**
- K1G777-03310 0.80 / 2 notch
- K1G777-03600 0.90 / 1 notch
- K1G777-03610 1.0 / 0 notch

4) **Rocker Cover Gasket**
- K1G772-14520

1) **Bushing, Con Rod**
- K1G772-21982 x8

2) **Bolt, Con Rod**
- K1G772-22140 x8

3) **Connecting Rod**
- K1G772-22013



1) **Tappet**
- K1G772-15550 x8

2) **Pushrod**
- K1G772-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1C011-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1G772-13114 x8

Valve, Exhaust
- K1G772-13125 x8

Guide, Intake
- K16261-13540 x8

Guide, Exhaust
- K16261-13560 x8

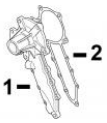
Spring, Valve
- K1C010-13240 x16

Seal, Valve
- K1C010-13150 x16

Oil Pump Kit (Rotor Set)
- K1G772-35070

Oil Cooler
- K1G777-37010 2

Fuel Lift Pump
- K1C010-52033



1) **Water Pump**
- K1G772-73035

2) **Water Pump Gasket**
- K1G772-73430

1) **Injector**
- K1G777-53000 x4

2) **Glow Plug**
- K1G777-65512

1) **Liner**
- 94RS

2) **Turbocharger**
- K1J752-17015 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper usage

KUBOTA V3307-CR COMMON RAIL INJECTION

Engine Series:
07

Engine Model:
V3307-CR

Engine Desc:
V3307-CR-TE4B

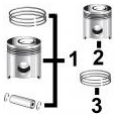
Engine Data:
Common Rail Injection

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.70 in / 94 mm Stroke: 4.72 in / 120 mm

Please see page **661** for a complete list of equipment models.

Engine O/H Kit
- KV3307CRT Std. 1
- KV3307CRT/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1J770-21670 Std.
- K1J770-21690 0.50 mm

Use 4

2) **Piston**
- K1J770-21112 Std.
- K1J770-21902 0.50 mm

3) **Ring Set**
- K1G772-21050 Std.
- K1G772-21092 0.50 mm

Main Bearing
- K1G777-23402 Std.
- K1G777-23882 0.20 mm
- K1G777-23892 0.40 mm

Use 5 Pairs

Con Rod Bearing
- K1G772-22332 Std.
- K1G772-22972 0.20 mm
- K1G772-22982 0.40 mm

Use 4 Pairs

Thrust Washer
- K1G772-23534/44 Std.

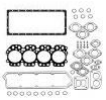
Set of 2 Pairs

1) **Front Seal**
- K1C020-04140

2) **Rear Seal**
- K1G772-04460

3) **Crankshaft**
- K1G777-23010 2

4) **Oil Pump Drive Gear**
- K1G772-35630



1) **Top Gasket Set**
- K1J770-99352 1

2) **Bottom Gasket Set**
- K1J770-99360

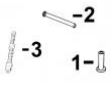
3) **Head Gasket**
- K1J783-03310 2 notch
- K1J783-03600 1 notch
- K1J783-03610 0 notch

4) **Rocker Cover Gasket**
- K1G772-14520

1) **Bushing, Con Rod**
- K1G772-21982 x8

2) **Bolt, Con Rod**
- K1G772-22140 x8

3) **Connecting Rod**
- K1G772-22013



1) **Tappet**
- K1G772-15550 x8

2) **Pushrod**
- K1G772-15110 x8

3) **Camshaft**

1) **Thermostat**
- K1C011-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1G772-13114 x8

Valve, Exhaust
- K1G772-13125 x8

Guide, Intake
- K16261-13540 x8

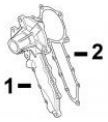
Guide, Exhaust
- K16261-13560 x8

Spring, Valve
- K1C010-13240 x16

Seal, Valve
- K1C010-13150 x16

Lock, Valve
- K15261-13980 x32

Oil Pump Rotor Assembly
- K1G772-35070 2



1) **Water Pump**
- K1G772-73035 2

2) **Water Pump Gasket**
- K1G772-73430

Injector
- K1J770-53075 2

1) **Repair Sleeve**
- 94RS

2) **Turbocharger**
- K1J773-17013 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper usage

Engine Series:
V3

Engine Model:
V3800-DI-E2B / V3800-DI-E3B

Engine Desc:
V3800-DI-T-E2B / V3800-DI-T-E3B / V3800-DI-T-E3BG

Engine Data:
Direct Injection Pencil fuel injector

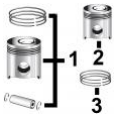
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100 mm Stroke: 4.724 in / 120 mm

Kubota
M105 - Tractor
M108 - Tractor
M8540 - Tractor
M9540 - Tractor
SVL90 - Compact track loader
SVL90C - Compact track loader

Bobcat
A770 - Compact track loader
S220 - Skid Steer
S250 - Skid Steer
S300 - Skid Steer
S750 - Skid Steer
S770 - Skid Steer
S850 - Skid Steer
T110 - Compact track loader
T250 - Compact track loader
T300 - Compact track loader
T750 - Compact track loader
T770 - Compact track loader
T870 - Compact track loader

Engine O/H Kit
- KV3800DI Std. 1
- KV3800DI/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1G549-21772 Std.
- K1G549-21792 0.50 mm

Use 4

2) **Piston**
- K1J550-21112 Std.
- K1J550-21912 0.50 mm

3) **Ring Set**
- K1J500-21050 Std.
- K1J500-21090 0.50 mm

Main Bearing
- K1C020-23470 Std.
- K1C020-23910 0.20 mm
- K1C020-23920 0.40 mm

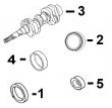
Use 5 Pairs

Con Rod Bearing
- K1C020-22312 Std.
- K1C020-22962 0.20 mm
- K1C020-22972 0.40 mm

Use 4 Pairs

Thrust Washer
- K1C010-23530/40 Std.
- K1C010-23950/70 0.20 mm
- K1C010-23960/80 0.40 mm

Set of 2 Pairs

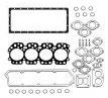


1) **Front Seal**
- K1C010-04140

2) **Rear Seal**
- K1C010-04460

3) **Crankshaft**
- K1G574-23010

4) **Rear Crank Bushing**
- K1C020-23300



1) **Top Gasket Set**
- K1G556-99352 1

2) **Bottom Gasket Set**
- K1G526-99360

3) **Head Gasket**
- K1G514-03314 2 Notch
- K1G514-03604 1 Notch
- K1G514-03614 No Notch

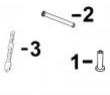
4) **Rocker Cover Gasket**
- K1C010-14520
- K1C020-14520

5) **Liquid Gasket**
- K70000-73764

1) **Bushing, Con Rod**
- K1C010-21980 x8

2) **Bolt, Con Rod**
- K1C010-22142 x8

3) **Connecting Rod**
- K1G514-22014



Tappet
- K15601-15550 x8

2) **Pushrod**
- K1C010-15110 x8

3) **Camshaft**

Thermostat
- K1C011-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1C020-13110 x8

Valve, Exhaust
- K1C020-13120 x8

Guide, Valve Intake
- K16261-13540 x8

Guide, Valve Exh.
- K16261-13560 x8

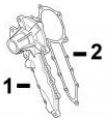
Spring, Valve
- K1C010-13240 x16

Seal, Valve - Intake
- K1C010-13150 x16

1) **Oil Pump Kit (Rotor Set)**
- K1C010-35070

2) **Oil Cooler**
- K1J550-37010 2

Fuel Lift Pump
- K1C010-52033



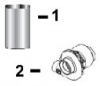
1) **Water Pump**
- K1C010-73032

2) **Water Pump Gasket**
- K1C010-73430

1) **Injector**
- K1G544-53003 x4

2) **Glow Plug**

3) **Switch, Oil**
- K15841-39010



1) **Repair Sleeve**
-

2) **Turbocharger**
- K1E153-17015 2

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(2): Check application for proper usage.

KUBOTA V3 SERIES V3800-CR-T IT4

Engine Series:
V3

Engine Model:
V3800-CR-T

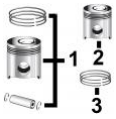
Engine Desc:
V3800-CR-T IT4

Engine Data:
Tier3/Interim Tier 4, Common Rail Injection

Engine Dimensions:
Bore: 3.937 in / 100 mm
Stroke: 4.724 in / 120 mm

Please see page **662** for a complete list of equipment models.

Engine O/H Kit
- KV3800CRT Std. 1
- KV3800CRT/50 0.50 mm 1



1) **Piston & Ring Kit**
- K1J574-21775 Std.
- K1J574-21785 0.50 mm

Use 4

2) **Piston**
- K1J574-21112 Std.
- K1J574-21912 0.50 mm

3) **Ring Set**
- K1J500-21050 Std.
- K1J500-21090 0.50 mm

Main Bearing
- K1C020-23470 Std.
- K1C020-23910 0.20 mm
- K1C020-23920 0.40 mm

Use 5 Pairs

Con Rod Bearing
- K1C020-22312 Std.
- K1C020-22962 0.20 mm
- K1C020-22972 0.40 mm

Use 4 Pairs

Thrust Washer
- K1C010-23530/40 Std.
- K1C010-23950/70 0.20 mm
- K1C010-23960/80 0.40 mm

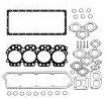
Set of 2 Pairs

1) **Front Seal**
- K1C020-04140

2) **Rear Seal**
- K1C010-04460

3) **Crankshaft**

4) **Rear Crank Bushing**
- K1C010-23300



1) **Head Gasket Set**
- K1J574-99356 1

2) **Bottom Gasket Set**
- K1J574-99363

3) **Head Gasket**
- K1G514-03314 2 Notch
- K1G514-03604 1 Notch
- K1G514-03614 No Notch

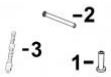
4) **Rocker Cover Gasket**
- K1C020-14520

5) **Liquid Gasket**
- K70000-73764

1) **Bushing, Con Rod**
- K1J574-21982 x8

2) **Bolt, Con Rod**
- K1C010-22142 x8

3) **Connecting Rod**



Tappet
- K15601-15550 x8

2) **Pushrod**
- K1C010-15110 x8

3) **Camshaft**

Thermostat
- K1C011-73010

2) **Gasket, Thermostat**

Valve, Intake
- K1C020-13110 x8

Valve, Exhaust
- K1C020-13120 x8

Guide, Valve
- K16261-13560 x16

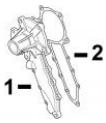
Lock, Valve
- K15261-13980 x32

Spring, Valve
- K1C010-13240 x16

Seal, Valve - Intake
- K1C010-13150 x16

1) **Oil Pump Kit (Rotor Set)**
- K1C010-35070

2) **Oil Cooler**
- K1J550-37010 2



1) **Water Pump**
- K1C010-73032 2

2) **Water Pump Gasket**
- K1C010-73430

1) **Turbocharger**
- K1G574-17016 2
- K1J500-17014 2

(1): Includes 2 notch head gasket

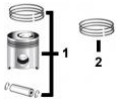
(2): Check application for proper usage.

MITSUBISHI S4S INDIRECT INJECTION, NATURALLY ASPIRATED

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S4S	INDIRECT INJECTION	NATURALLY ASPIRATED	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm Piston Compression Height: 2.165 in / 55 mm

Please see page **663** for a complete list of equipment models.

Basic Engine Kit
- MBK401
- MBK402
- Spec Sheet - S4S



1) **Piston & Ring Kit**
- M32A17-05500 Std.
- M32A17-05700 0.50

4 Per Engine

2) **Ring Set**
- M32A17-02010 Std.
- M32A17-02030 0.50

Main Bearing Set
- M32A09-00010 Std.
- M32A09-00020 0.25
- M32A09-00030 0.50
- M32A09-00040 0.75

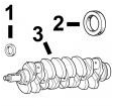
Set of 5 Pairs

Con Rod Bearing Set
- M32A19-09011 Std.
- M32A19-09021 0.25
- M32A19-09031 0.50
- M32A19-09041 0.75

Set of 4 Pairs

Thrust Washer
- M32B09-08101

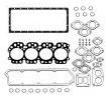
Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

2) **Rear Seal**
- M34407-11090 (1)
- M34407-11090S (2)

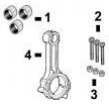
3) **Crankshaft**
- M32A20-00014



1) **O/H Gasket Set**
- M32A94-11020

2) **Cyl Head Gsk**
- M32A01-12300

3) **Valve Cover Gsk**
- M32A04-13200



1) **Bush, Con Rod**
- M32A19-00501 x4

2) **Bolt, Con Rod**
- M32A19-00400 x8

3) **Nut, Con Rod**
- M30619-10501 x8

4) **Con Rod**
- M32A19-00012

1) **Tappet**
- M32A05-02101 x8

2) **Push Rod**
- M32A05-13100 x8

Valve Train

1) **Valve, Intake**
- M32A04-20100 x4

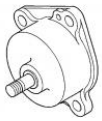
2) **Valve, Exhaust**
- M32A04-21100 x4

3) **Guide, Valve**
- M32A01-01600 x8

4) **Spring, Valve**
- M30604-21402 x8

5) **Lock, Valve**
- M34404-02901 x16

6) **Seal, Valve**
- M32C04-06500 x8



Oil Pump
- M32B35-00010

Water Pump
- M32B45-10031 (3)
- M32A45-10031 (3)
- M32A45-00022 (3)

Thermostat
- M32A46-02100

Glowplug
- M32A66-03101 x4

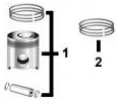
(1): Seal dimensions: 90x115x13 mm.
(2): Seal with sleeve (Seal dimensions: 97x115x12 mm)
(3): Check application for proper usage.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S4S DT	DIRECT INJECTION	TURBOCHARGED	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Northern Light Generators (Marine And Industrial)

M-NL944T M38CR2

Basic Engine Kit
- MBK404
- MBK405
- Spec Sheet - S4S



1) **Piston & Ring Kit**
- M32A17-04500 Std.
- M32A17-04700 0.50

4 Per Engine

2) **Ring Set**
- M32A17-02010 Std.
- M32A17-02030 0.50

Main Bearing Set
- M32A09-00010 Std.
- M32A09-00020 0.25
- M32A09-00030 0.50
- M32A09-00040 0.75

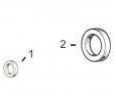
Set of 5 Pairs

Con Rod Bearing Set
- M32A19-09011 Std.
- M32A19-09021 0.25
- M32A19-09031 0.50
- M32A19-09041 0.75

Set of 4 Pairs

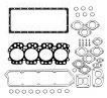
Thrust Washer
- M32B09-08101

Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

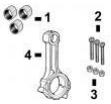
2) **Rear Seal**
- M34407-11090 [1]
- M34407-11090S [2]



1) **O/H Gasket Set**
- MS4STOG

2) **Cyl Head Gsk**
- M32K01-02100

3) **Valve Cover Gsk**
- M32A04-03200



1) **Bush, Con Rod**
- M32A19-00501 x4

2) **Bolt, Con Rod**
- M32A19-00400 x8

3) **Nut, Con Rod**
- M30619-10501 x8

4) **Con Rod**
- M32A19-00012

1) **Tappet**
- M32A05-02101 x8

2) **Pushrod**
- M32A05-13100 x8

Valve Train

1) Valve, Intake
- M32A04-20100 x4

2) Valve, Exhaust
- M32A04-21100 x4

3) Guide, Valve
- M32A01-01600 x8

4) Spring, Valve
- M30604-21402 x8

5) Lock, Valve
- M34404-02901 x16

6) Seal, Valve
- M32C04-06500 x8

1) **Oil Pump**
- M32B35-00010

2) **Oil Cooler**
- M32A39-03300

1) **Water Pump**
- M32B45-10031 [3]

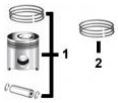
2) **Thermostat**
- M32A46-02100

Glowplug
- M32A66-07011 x4

(1): Seal dimensions: 90x115x13 mm.
(2): Seal with sleeve (Seal dimensions: 97x115x12 mm).
(3): Check application for proper use.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S4S DT	DIRECT INJECTION	TURBOCHARGED	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Basic Engine Kit
- MBK407
- MBK408
- Spec Sheet - S4S



1) **Piston & Ring Kit**
- M32A17-55500 Std.
- M32A17-55700 0.50

4 Per Engine

2) **Ring Set**
- M32A17-03010 Std.
- M32A17-03030 0.50

Main Bearing Set
- M32A09-00010 Std.
- M32A09-00020 0.25
- M32A09-00030 0.50
- M32A09-00040 0.75

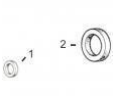
Set of 5 Pairs

Con Rod Bearing Set
- M32A19-09011 Std.
- M32A19-09021 0.25
- M32A19-09031 0.50
- M32A19-09041 0.75

Set of 4 Pairs

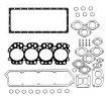
Thrust Washer
- M32B09-08101

Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

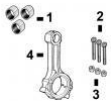
2) **Rear Seal**
- M34407-11090 1
- M34407-11090S 2



1) **O/H Gasket Set**
- MS4STOG

2) **Cyl Head Gsk**
- M32K01-02100

3) **Valve Cover Gsk**
- M32A04-13200



1) **Bush, Con Rod**
- M32A19-00501 x4

2) **Bolt, Con Rod**
- M32A19-00400 x8

3) **Nut, Con Rod**
- M30619-10501 x8

4) **Con Rod**
- M32A19-00012

1) **Tappet**
- M32A05-02101 x8

2) **Push Rod**
- M32A05-13100 x8

Valve Train

1) **Valve, Intake**
- M32A04-20100 x4

2) **Valve, Exhaust**
- M32A04-21100 x4

3) **Guide, Valve**
- M32A01-01600 x8

4) **Spring, Valve**
- M30604-21402 x8

5) **Lock, Valve**
- M34404-02901 x16

6) **Seal, Valve**
- M32C04-06500 x8

1) **Oil Pump**
- M32B35-00010

2) **Oil Cooler**
- M32A39-03300

1) **Water Pump**
- M32B45-10031 3

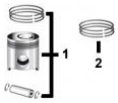
2) **Thermostat**
- M32A46-02100

Glowplug
- M32A66-07011 x4

(1): Seal dimensions: 90x115x13 mm.
(2): Seal with sleeve (Seal dimensions: 97x115x12 mm)
(3): Check application for proper use.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S4S DT	DIRECT INJECTION	TURBOCHARGED	4 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Basic Engine Kit
- MBK410
- MBK411
- Spec Sheet - S4S



1) **Piston & Ring Kit**
- M32A17-55100 Std.
- M32A17-55300 0.50

4 Per Engine

2) **Ring Set**
- M32A17-03010 Std.
- M32A17-03030 0.50

Main Bearing Set
- M32A09-00010 Std.
- M32A09-00020 0.25
- M32A09-00030 0.50
- M32A09-00040 0.75

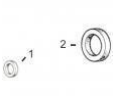
Set of 5 Pairs

Con Rod Bearing Set
- M32A19-09011 Std.
- M32A19-09021 0.25
- M32A19-09031 0.50
- M32A19-09041 0.75

Set of 4 Pairs

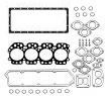
Thrust Washer
- M32B09-08101

Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

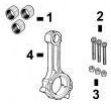
2) **Rear Seal**
- M34407-11090 1
- M34407-11090S 2



1) **O/H Gasket Set**
- MS4STOG

2) **Cyl Head Gsk**
- M32K01-02100

3) **Valve Cover Gsk**
- M32A04-13200



1) **Bush, Con Rod**
- M32A19-00501 x4

2) **Bolt, Con Rod**
- M32A19-00400 x8

3) **Nut, Con Rod**
- M30619-10501 x8

4) **Con Rod**
- M32A19-00012

1) **Tappet**
- M32A05-02101 x8

2) **Push Rod**
- M32A05-13100 x8

Valve Train

1) **Valve, Intake**
- M32A04-20100 x4

2) **Valve, Exhaust**
- M32A04-21100 x4

3) **Guide, Valve**
- M32A01-01600 x8

4) **Spring, Valve**
- M30604-21402 x8

5) **Lock, Valve**
- M34404-02901 x16

6) **Seal, Valve**
- M32C04-06500 x8

1) **Oil Pump**
- M32B35-00010

2) **Oil Cooler**
- M32A39-03300

1) **Water Pump**
- M32B45-10031 3

2) **Thermostat**
- M32A46-02100

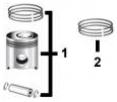
Glowplug
- M32A66-07011 x4

(1): Seal dimensions: 90x115x13 mm.
(2): Seal with sleeve (Seal dimensions: 97x115x12 mm)
(3): Check application for proper use.

MITSUBISHI S6S INDIRECT INJECTION NATURALLY ASPIRATED

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S6S	INDIRECT INJECTION	NATURALLY ASPIRATED	6 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm Piston Compression Height: 2.165 in / 55 mm

Basic Engine Kit
- MBK601
- MBK602
- SPEC SHEET - S6S



1) **Piston & Ring Kit**
- M32A17-05500 Std.
- M32A17-05700 0.50

6 Per Engine

2) **Ring Set**
- M32A17-02010 Std.
- M32A17-02030 0.50

Main Bearing Set
- M32B09-00010 Std.
- M32B09-00020 0.25
- M32B09-00030 0.50
- M32B09-00040 0.75

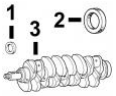
Set of 7 Pairs

Con Rod Bearing Set
- M32B09-09010 Std.
- M32B09-09020 0.25
- M32B09-09030 0.50
- M32B09-09040 0.75

Set of 6 Pairs

Thrust Washer
- M32B09-08101

Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

2) **Rear Seal**
- M34407-11090 1
- M34407-11090S 2

3) **Crankshaft**
- M32B20-00012F

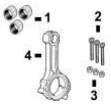
1) **O/H Gasket Set**
- M32B94-00010 4

2) **Cyl Head Gsk**
- M32B01-12101

3) **Valve Cover Gsk**
- M32B04-03200

4) **Oil Pan Gasket**

MOILPG



1) **Bush, Con Rod**
- M32A19-00501 x6

2) **Bolt, Con Rod**
- M32A19-00400 x12

3) **Nut, Con Rod**
- M30619-10501 x12

4) **Con Rod**
- M32A19-00012

1) **Bushing, Cam**
- M34307-12700 x1
- M34307-02801 x2
- M34307-02900 x1

Bushing, Cam Set
- MS6KCBS 3

2) **Camshaft**
- M32B05-00200

3) **Tappet**
- M32A05-02101 x12

4) **Pushrod**
- M32A05-13100 x12

Valve Train

1) **Valve, Intake**
- M32A04-20100 x6

2) **Valve, Exhaust**
- M32A04-21100 x6

3) **Guide, Valve**
- M32A01-01600 x12

4) **Spring, Valve**
- M30604-21402 x12

5) **Lock, Valve**
- M34404-02901 x24

6) **Seal, Valve**
- M32C04-06500 x12

1) **Oil Pump**
- M32B35-00010

2) **Oil Cooler**
- M32A39-03300

1) **Water Pump**
- M32B45-10031 5

2) **Thermostat**
- M32A46-02100

Repair Sleeve
- M32A07-00300

Glowplug
- M32A66-03101 x6

(1): Seal dimensions: 90x115x13 mm.

(2): Seal with sleeve (Seal dimensions: 97x115x12 mm)

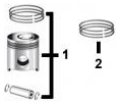
(3): Includes:M34307-12700 x 1M34307-02801 x 2M34307 – 02900 x 1

(4): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket MOILPG separately.

(5): Check application for proper use.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S4K-T	DIRECT INJECTION	TURBOCHARGED	4 Cyl	Bore: 4.016 in / 102.00 mm Stroke: 5.12 in / 130.00 mm

Basic Engine Kit
- MBK748 Std.
- SPEC SHEET - S4K-T



1) **Piston & Ring Kit**
- M34317-07100 Std.

4 Per Engine

2) **Ring Set**
- M34317-07010 Std.

Main Bearing Set
- M34309-09051-4 Std.
- M34309-09061-4 0.25
- M34309-09071-4 0.50
- M34309-09081-4 0.75

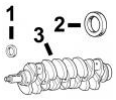
Set of 5 Pairs

Con Rod Bearing Set
- M34219-00500-4 Std.
- M34219-00600-4 0.25
- M34219-00700-4 0.50
- M34219-00800-4 0.75

Set of 4 Pairs

Thrust Washer
- M34309-00800

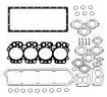
Set of 3 Pcs



1) **Front Seal**
- M34311-00800

2) **Rear Seal**
- M34312-00080

3) **Crankshaft**
- M34420-00042

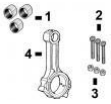


1) **O/H Gasket Set**
- M34294-03050

2) **Cyl Head Gsk**
- M34201-10700

3) **Rocker Cover Gasket**
- M34404-35301

4) **Oil Pan Gasket**
- M34213-04100



1) **Bush, Con Rod**
- M34319-10501 x4

2) **Bolt, Con Rod**
- MME012232 x8

3) **Nut, Con Rod**
- MME023570 x8

4) **Con Rod**
- M34319-01012

1) **Tappet**
- M30605-62100

2) **Push Rod**
- M34405-03100 x8

3) **Camshaft**
- M34205-00302

4) **Cam Bushing Kit**
- MS4KCBS x1

Oil Pressure Switch
- MMC840-219

Intake Valve
- M34204-00200 x4

Insert Valve
- M34301-01800 x4

Exhaust Valve
- M36704-01601 x4

Insert Valve
- M34301-01600 x4

Intake Valve Guide
- M34301-02200 x4

Exhaust Valve Guide
- M34301-02300 x4

Valve Seal
- M30604-22801 x8

Valve Spring
- M36704-02100 x8

1) **Oil Pump Gears**
- M34235-03021 9 teeth
- M34235-03031 9 teeth

2) **Oil Pump Gasket**
- M34335-02400

3) **Oil Cooler**
- M34239-02100

4) **Oil Cooler Gasket**
- M34239-04101

1) **Water Pump**
- M34345-10051

2) **Water Pump, Gasket**
- M06016-13110

1) **Thermostat**
- M34346-11500

2) **Thermostat Gasket**
- M34346-14100

1) **Fuel Lift Pump**
- M105220-7180

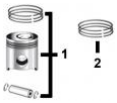
2) **Injector**
- M34361-06070 1
- M34361-03030 1

Repair Sleeve
- M34307-00501

(1): Check application for proper usage

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S4K-T	DIRECT INJECTION	TURBOCHARGED	4 Cyl	Bore: 4.016 in / 102.00 mm Stroke: 5.12 in / 130.00 mm

Basic Engine Kit
- MBK749 Std.
- SPEC SHEET - S4K-T



1) **Piston & Ring Kit**
- M34317-07500 Std.

4 Per Engine

2) **Ring Set**
- M34317-07010 Std.

Main Bearing Set
- M34309-09051-4 Std.
- M34309-09061-4 0.25
- M34309-09071-4 0.50
- M34309-09081-4 0.75

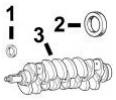
Set of 5 Pairs

Con Rod Bearing Set
- M34219-00500-4 Std.
- M34219-00600-4 0.25
- M34219-00700-4 0.50
- M34219-00800-4 0.75

Set of 4 Pairs

Thrust Washer
- M34309-00800

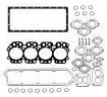
Set of 3 Pcs



1) **Front Seal**
- M34311-00800

2) **Rear Seal**
- M34312-00080

3) **Crankshaft**
- M34220-00042

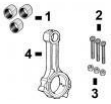


1) **O/H Gasket Set**
- M34294-03050

2) **Cyl Head Gsk**
- M34201-10700

3) **Rocker Cover Gasket**
- M34404-35301

4) **Oil Pan Gasket**
- M34213-04100



1) **Bush, Con Rod**
- M34319-10501 x4

2) **Bolt, Con Rod**
- MME012232 x8

3) **Nut, Con Rod**
- MME023570 x8

4) **Con Rod**
- M34319-01012

1) **Tappet**
- M30605-62100 x8

2) **Push Rod**
- M34405-03100 x8

3) **Camshaft**
- M34205-00302

4) **Cam Bushing Kit**
- MS4KCBS

Oil Pressure Switch
- MMC840-219

Intake Valve
- M36704-00401 x4 [1]

Insert Valve
- M34301-01800 x4

Exhaust Valve
- M36704-01601 x4

Insert Valve
- M34301-01600 x4

Intake Valve Guide
- M34301-02200 x4

Exhaust Valve Guide
- M34301-02300 x4

Valve Seals
- M30604-22801 x8

Valve Spring
- M36704-02100 x8

1) **Oil Pump Gears**
- M34235-03021 9 teeth
- M34235-03031 9 teeth

2) **Oil Pump Gasket**
- 3) M34335-02400

3) **Oil Cooler**
- M34239-02100

5) **Oil Cooler Gasket**
- M34239-04101

1) **Water Pump**
- M34345-10010

2) **Water Pump, Gasket**
- M06016-13110

1) **Thermostat**
- M34346-11500

2) **Thermostat Gasket**
- M34346-14100

1) **Fuel Lift Pump**
- M105220-7180

2) **Injector**
- M34361-11010

1) **Repair Sleeve**
- M34307-00501

2) **Cylinder Head**
- M34201-21060UF [1]

3) **Turbocharger**
- M49189-02450 [2]

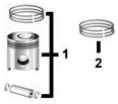
(1): Intake Valve – 44mm Head Diameter

(2): Check application for proper usage.

MITSUBISHI S6S-D DIRECT INJECTION NATURALLY ASPIRATED

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S6S D	DIRECT INJECTION	NATURALLY ASPIRATED	6 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Basic Engine Kit
- MBK604
- MBK605
- SPEC SHEET - S6S D



1) **Piston & Ring Kit**
- M32A17-05102 Std.
- M32A17-05302 0.50

6 Per Engine

2) **Ring Set**
- M34417-02012 Std.
- M34417-02032 0.50

Main Bearing Set
- M32B09-00010 Std.
- M32B09-00020 0.25
- M32B09-00030 0.50
- M32B09-00040 0.75

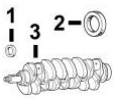
Set of 7 Pairs

Con Rod Bearing Set
- M32B09-09010 Std.
- M32B09-09020 0.25
- M32B09-09030 0.50
- M32B09-09040 0.75

Set of 6 Pairs

Thrust Washer
- M32B09-08101

Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

2) **Rear Seal**
- M34407-11090 (1)
- M34407-11090S (2)

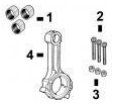
3) **Crankshaft**
- M32B20-00012F

1) **O/H Gasket Set**
- M32B94-00010 (5)

2) **Cyl Head Gsk**
- M32B01-12101

3) **Valve Cover Gsk**
- M32B04-03200

4) **Oil Pan Gasket**
- MOILPG



1) **Bush, Con Rod**
- M32A19-00501 x6

2) **Bolt, Con Rod**
- M32A19-00400 x12

3) **Nut, Con Rod**
- M30619-10501 x12

4) **Con Rod**
- M32A19-00012

1) **Bushing, Cam**
- M34307-12700 x1
- M34307-02801 x2
- M34307-02900 x1

Bushing, Cam Set
- MS6KCBS (4)

2) **Camshaft**
- M32B05-00200

3) **Tappet**
- M32A05-02101 x12

4) **Pushrod**
- M32A05-13100 x12

Valve Train

1) **Valve, Intake**
- M32A04-20100 x6

2) **Valve, Exhaust**
- M32A04-21100 x6

3) **Guide, Valve**
- M32A01-01600 x12

4) **Spring, Valve**
- M30604-21402 x12

5) **Lock, Valve**
- M34404-02901 x24

6) **Seal, Valve**
- M32C04-06500 x12

1) **Oil Pump**
- M32B35-00010

2) **Oil Cooler**
- M32B39-00100

1) **Water Pump**
- M32B45-10031 (6)

2) **Thermostat**
- M32A46-02100

1) **Repair Sleeve**
- M32A07-00300

2) **Cylinder Head**
- M32B01-06041UF (3)

Glowplug
- M32A66-07011 x6

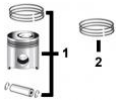
(1): Seal dimensions: 90x115x13 mm.
(2): Seal with sleeve (Seal dimensions: 97x115x12 mm)
(3): Direct Injection w/ Glowplugs.
(4): Includes:M34307-12700 x 1M34307-02801 x 2M34307-02900 x 1
(5): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket MOILPG separately.
(6): Check application for proper use.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
S6S DT	DIRECT INJECTION	TURBOCHARGED	6 Cyl	Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm

Hyundai

R160LCD-7 R180LCD-7

Basic Engine Kit
- MBK607
- MBK608
- SPEC SHEET - S6S DT



1) **Piston & Ring Kit**
- M32A17-06101 Std.
- M32A17-06301 0.50

6 Per Engine

2) **Ring Set**
- M34417-02012 Std.
- M34417-02032 0.50

Main Bearing Set
- M32B09-00010 Std.
- M32B09-00020 0.25
- M32B09-00030 0.50
- M32B09-00040 0.75

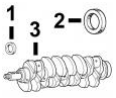
Set of 7 Pairs

Con Rod Bearing Set
- M32B09-09010 Std.
- M32B09-09020 0.25
- M32B09-09030 0.50
- M32B09-09040 0.75

Set of 6 Pairs

Thrust Washer
- M32B09-08101

Set of 3 Pcs



1) **Front Seal**
- M32A11-04010

2) **Rear Seal**
- M34407-11090 1
- M32A20-00012 2

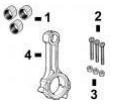
3) **Crankshaft**
- M32B20-00012F

1) **O/H Gasket Set**
- M32B94-00010 5

2) **Cyl Head Gsk**
- M32B01-12101

3) **Valve Cover Gsk**
- M32B04-03200

4) **Oil Pan Gasket**
- MOILPG

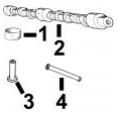


1) **Bush, Con Rod**
- M32A19-00501 x6

2) **Bolt, Con Rod**
- M32A19-00400 x12

3) **Nut, Con Rod**
- M30619-10501 x12

4) **Con Rod**
- M32A19-00012



1) **Bushing, Cam**
- M34307-12700 x1
- M34307-02801 x2
- M34307-02900 x1

Bushing, Cam Set
- MS6KCBS 4

2) **Camshaft**
- M32B05-00200

3) **Tappet**
- M32A05-02101 x12

4) **Pushrod**
- M32A05-13100 x12

Valve Train

1) **Valve, Intake**
- M32A04-20100 x6

2) **Valve, Exhaust**
- M32A04-21100 x6

3) **Guide, Valve**
- M32A01-01600 x12

4) **Spring, Valve**
- M30604-21402 x12

5) **Lock, Valve**
- M34404-02901 x24

6) **Seal, Valve**
- M32C04-06500 x12

1) **Oil Pump**
- M32B35-00010

2) **Oil Cooler**
- M32B39-00100

1) **Water Pump**
- M32B45-10031 6

2) **Thermostat**
- M32A46-02100

1) **Repair Sleeve**
- M32A07-00300

2) **Cylinder Head**
- M32B01-06041UF 3

Glowplug
- M32A66-07011 x6

(1): Seal dimensions: 90x115x13 mm.
(2): Seal with sleeve (Seal dimensions: 97x115x12 mm)
(3): Direct Injection w/ Glowplugs.
(4): Includes:M34307-12700 x 1M34307-02801 x 2M34307-02900 x 1
(5): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket MOILPG separately.
(6): Check application for proper use.

MITSUBISHI S6K

Engine Model:
S6K

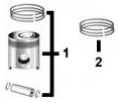
Engine Desc:
DIRECT INJECTION

Engine Data:
TURBO

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 102.00 mm Stroke: 130.00 mm

Basic Engine Kit
- MBK7500
- SPEC SHEET - S6K



1) **Piston & Ring Kit**
- M34317-07500 Std.

2) **Ring Set**
- M34317-07010 Std.

Main Bearing Set
- M34309-09051 Std.
- M34309-09061 0.25
- M34309-09071 0.50
- M34309-09081 0.75

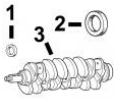
Set of 7 Pairs

Con Rod Bearing Set
- M34219-00500 Std.
- M34219-00600 0.25
- M34219-00700 0.50
- M34219-00800 0.75

Set of 6 Pairs

Thrust Washer
- M34309-00800

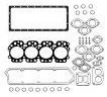
Set of 3 Pcs



1) **Front Seal**
- M34311-00800

2) **Rear Seal**
- M34312-00080

3) **Crankshaft**
- M34320-00040

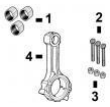


1) **O/H Gasket Set**
- M34394-20010

2) **Cyl Head Gsk**
- M34301-00203

3) **Rocker Cover Gasket**
- M34304-00701 1
- M34704-15301 1

4) **Oil Pan Gasket**
- M34313-04100

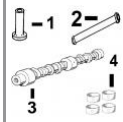


1) **Bush, Con Rod**
- M34319-10501 x6

2) **Bolt, Con Rod**
- ME012232 x12

3) **Nut, Con Rod**
- ME023570 x12

4) **Con Rod**
- M34319-01012 x6



1) **Tappet**
- M30605-62100 x12

2) **Push Rod**
- M34405-03100 x12

3) **Camshaft**
- M34305-00601

4) **Cam Bushing Kit**
- MS6KCBS

Intake Valve
- M36704-00401 x6 2
- M34204-00200 x6 3

Valve Insert
- M34301-01800 4

Exhaust Valve
- M36704-01601 x6

Valve Insert
- M34301-01600 x6

Intake Valve Guide
- M34301-02200

Exhaust Valve Guide
- M34301-02300

Valve Spring
- M36704-02100

Valve Seals
- M30604-22801

1) **Oil Pump**
- M32B35-00010

2) **Oil Pump Gasket**
- M34335-02400 5
- M34335-01301 6

3) **Oil Cooler**
- M34339-02102

4) **Oil Cooler Gasket**
- M34339-04101

1) **Water Pump**
- M34345-10010 7
- M34345-10051 8

2) **Water Pump, Gasket**
- M06016-13110

1) **Thermostat**
- M34346-11500

2) **Thermostat Gasket**
- M34346-14100

3) **Oil Pressure Switch**
- MMC840-219

1) **Fuel Lift Pump**
- M105220-7180

2) **Injector**
- M34365-03040

1) **Repair Sleeve**
- M34307-00501

2) **Turbocharger**
- M49179-02300

3) **Cylinder Head**
- M34301-21030UF 2

Front
- M34301-21040UF Re 2
- M34301-04050UF 3

Front
- M34301-04060UF Re 3

(1): Check for proper application.
(2): Intake valve – 44mm head diameter.
(3): Intake valve – 46mm head diameter.
(4): For intake valve M34204-00200 – 46mm head diameter.
(5): 8 installation holes.
(6): 7 installation holes.
(7): 7 vanes impeller wheel.
(8): 8 vanes impeller wheel.

Engine Model:
S6K

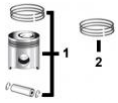
Engine Desc:
DIRECT INJECTION

Engine Data:
TURBO

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 102.00 mm Stroke: 130.00 mm

Basic Engine Kit
- MBK7100
- SPEC SHEET - S6K



1) **Piston & Ring Kit**
- M34317-07100 Std.

2) **Ring Set**
- M34317-07010 Std.

Main Bearing Set
- M34309-09051 Std.
- M34309-09061 0.25
- M34309-09071 0.50
- M34309-09081 0.75

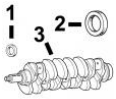
Set of 7 Pairs

Con Rod Bearing Set
- M34219-00500 Std.
- M34219-00600 0.25
- M34219-00700 0.50
- M34219-00800 0.75

Set of 6 Pairs

Thrust Washer
- M34309-00800

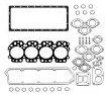
Set of 3 Pcs



1) **Front Seal**
- M34311-00800

2) **Rear Seal**
- M34312-00080

3) **Crankshaft**
- M34320-00040

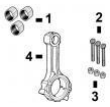


1) **O/H Gasket Set**
- M34394-20010

2) **Cyl Head Gsk**
- M34301-00203

3) **Rocker Cover Gasket**
- M34304-00701 1
- M34704-15301 1

4) **Oil Pan Gasket**
- M34313-04100

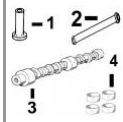


1) **Bush, Con Rod**
- M34319-10501 x6

2) **Bolt, Con Rod**
- ME012232 x12

3) **Nut, Con Rod**
- ME023570 x12

4) **Con Rod**
- M34319-01012 x6



1) **Tappet**
- M30605-62100 x8

2) **Push Rod**
- M34405-03100 x8

3) **Camshaft**
- M34305-00601

4) **Cam Bushing Kit**
- MS6KCBS

Intake Valve
- M36704-00401 x6 2
- M34204-00200 x6 3

Valve Insert
- M34301-01800 x6 4

Exhaust Valve
- M36704-01601 x6

Valve Insert
- M34301-01600 x6

Intake Valve Guide
- M34301-02200

Exhaust Valve Guide
- M34301-02300

Valve Spring
- M36704-02100

Valve Seals
- M30604-22801

1) **Oil Pump**
- M32B35-00010

2) **Oil Pump Gasket**
- M34335-02400 5
- M34335-01301 6

3) **Oil Cooler**
- M34339-02102

4) **Oil Cooler Gasket**
- M34339-04101

1) **Water Pump**
- M34345-10010 7
- M34345-10051 8

2) **Water Pump, Gasket**
- M06016-13110

1) **Thermostat**
- M34346-11500

2) **Thermostat Gasket**
- M34346-14100

3) **Oil Pressure Switch**
- MMC840-219

1) **Fuel Lift Pump**
- M105220-7180

2) **Injector**
- M34365-03040

1) **Repair Sleeve**
- M34307-00501

2) **Turbocharger**
- M49179-02300

3) **Cylinder Head**
- M34301-21030UF 2

Front
- M34301-21040UF Re 2
- M34301-04050UF 3

Front
- M34301-04060UF Re 3

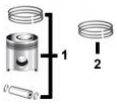
(1): Check for proper application
(2): Intake valve – 44mm head diameter.
(3): Intake valve – 46mm head diameter.
(4): For intake valve M34204-00200 – 46mm head diameter.
(5): 8 installation holes.
(6): 7 installation holes.
(7): 7 vanes impeller wheel.
(8): 8 vanes impeller wheel.

Engine Series:	Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
Shibaura	N843	NATURALLY ASPIRATED	3 Cyl	Bore: 3.3 in / 84.00 mm Stroke: 3.5 in / 90.00 mm Displacemement: 91 in3 / 1.496 Lt Compression Ratio: 22.5:1

New-Holland		Case IH		Shibaura Tractors	
L140 - Skid Steer	L150 - Skid Steer	D33 - Tractor	DX31 - Tractor	CM314	SG280
LS465 - Skid Steer	LX485 - Skid Steer	DX33 - Tractor		ST330	ST333
TC30 - Tractor	TC33D - Tractor				
TC33 - Tractor	TC33DA - Tractor				

1) **Engine O/H Kit**
- POK316 Std. 3
- POK317 0.50 3

2) **Basic Engine Kit**
- PBK316 Std.
- PBK317 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017541 Std.
- P115017541B 0.50

3 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs

Con Rod Bearing Set
- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs

1) **Thrust Washer**
- P199266200 x2

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

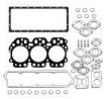
2) **Rear Seal**
- P198636170

3) **Crankshaft**
- P115256950 4

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- PU5LC0018

2) **Cyl Head Gsk**
- P111147501

3) **Seal Rocker Box**
- P120996140

4) **Seal, Cyl HD Cov**
- P111996410

5) **Oil Pan Gasket**
- P110996910

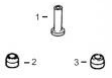
1) **Bush, Con Rod**
- P198517265 x3

2) **Bolt, Con Rod**
- P115176140 x6

3) **Nut, Con Rod**
- P020109120 x6

4) **Connecting Rod**
- P115026251

5) **Head Bolt**
- P111136480 x11
- P111136490 x3



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x3

3) **Seal, Exh Valve**
- P120406050 x3

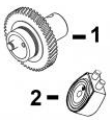
Valve Train Kit
- PVTK308

1) Valve, Intake
2) Valve, Exhaust
- 1) P120166350 x3
- 2) P120176360 x3

3) Spring, Valve
- P198217470 x6

4) Retainer, Valve Spring
- P120186080 x6 2

5) Lock, Valve
- P120226070 x12



1) **Oil Pump**
- PU5MK8266

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206182

3) **Atomiser**
- P131406490 1

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

Repair Sleeve
- 84RS

(1): Use with HL and HLC Builds.
(2): Not included in valve train kit.
(3): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.
(4): Not compatible with engines that have a crank driven balancer unit.

Engine Series:	Engine Model:	Engine Desc:	Engine Info:	Engine Dimensions:
Shibaura	N843L	NATURALLY ASPIRATED	3 Cyl	Bore: 3.3 in / 84.00 mm Stroke: 3.9 in / 100.00 mm Displacemement: 101.4 in3 / 1.662 Lt Compression Ratio: 22.5:1

Case IH

D35 - Tractor
DX34 - Tractor
DX35 - Tractor
Farmall35 - Tractor

Boomer

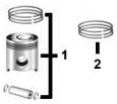
2035 - Tractor

New Holland

TC35DA - Tractor
TC35D - Tractor
TC35A - Tractor
TC35 - Tractor
TC34DA - Tractor
T2220 - Tractor
T1520 - Tractor

1) **Engine O/H Kit**
- POK318 Std. 4
- POK319 0.50 4

2) **Basic Engine Kit**
- PBK318 Std.
- PBK319 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017491 Std.
- P115017491B 0.50

3 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs

Con Rod Bearing Set
- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs

1) **Thrust Washer**
- P199266200 x2

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

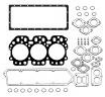
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P050209083

3) **Crankshaft Gear**
- PU15276270

4) **Key, Crank Gear**
- P030509020

5) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



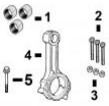
1) **O/H Gasket Set**
- PU5LC0018 2

2) **Cyl Head Gsk**
- P111147501

3) **Seal Rocker Box**
- P120996140

4) **Seal, Cyl HD Cov**
- P111996410

5) **Oil Pan Gasket**
- P110996910



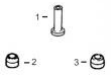
1) **Bush, Con Rod**
- P198517265 x3

2) **Bolt, Con Rod**
- P115176140 x6

3) **Nut, Con Rod**
- P020109120 x6

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x11
- P111136490 x3



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x3

3) **Seal, Exh Valve**
- P120406050 x3

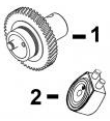
Valve Train Kit
- PVTK309

1) Valve, Intake
2) Valve, Exhaust
- 1) P120166350 x3
- 2) P120176360 x3

3) Spring, Valve
- P198216700 x6

4) Retainer, Valve Spring
- P120186080 x6 3

5) Lock, Valve
- P120226070 x12



1) **Oil Pump**
- PU5MK8266
- PU5MK8267 1

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206182
- P145206230 1

3) **Atomiser**
- P131406490 1

1) **Water Pump**
- P145017951
- PU45010062 1

2) **Gasket, W Pump**
- P145996921

Repair Sleeve
- 84RS

(1): Use with GS Build, 403D-17 Engine.

(2): Depending on the serial number or production date, the TC35, TC35D, D35, & DX35 may require additional manifold gaskets not offered in PU5LC0018

(3): Under develoment, not included in Valve Train Kit.

(4): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
Shibaura	N844	NATURALLY ASPIRATED	INDIRECT INJECTION	4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm Stroke: 3.54 in / 90.00 mm Displacemement: 121.7 in3 /2.0 Lt Compression Ratio: 22.5:1

Case IH

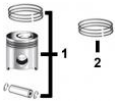
Farmall 40 - Tractor
D40 - Tractor
DX40 - Tractor

New Holland

L160 - Skid Steer
L213 - Skid Steer
LX565 - Skid Steer
T2310 - Tractor
TC40A - Tractor
TC40DA - Tractor
LS160 - Skid Steer
L565 - Skid Steer
1920, from MSN 43784 - Tractor
TC40 - Tractor
TC40D - Tractor
Boomer 3040 - Tractor

1) **Engine O/H Kit**
- POK844 Std.
- POK845 0.50

2) **Basic Engine Kit**
- PBK844 Std.
- PBK845 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017541 Std.
- P115017541B 0.50

4 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

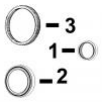
Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

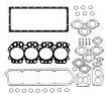
2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020



1) **Front Seal**
- P198636160

2) **Rear Seal**
- P198636170

3) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



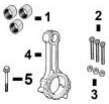
1) **O/H Gasket Set**
- P195907110 1

2) **Cyl Head Gsk**
- P111147520

3) **Rocker Box Seal**
- P052109074

4) **Rocker Box Cover Seal**
- P052109072

5) **Oil Pan Gasket**
- P110996920



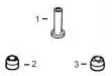
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026251

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) Valve, Intake
2) Valve, Exhaust
- 1) P120166350 x4 3
- 2) P120176360 x4 4

3) Spring, Valve
- P198216700 x8

4) Retainer, Valve Spring
- P120186080 x8 6

5) Lock, Valve
- P120226070 x16

Oil Pump
- PU5MK8266 5
- PU5MK8267 5

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

Thermostat
- P145206182

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111017420UF 5

(1): Does not include Crankshaft Oil Seals.
(2): Must verify valve head diameter before ordering.
(3): 37mm head diameter.
(4): 33mm head diameter.
(5): Check application for proper usage.
(6): Not included in Valve Train Kit.

N844T SHIBAURA TIER 1 & 2

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Info:
Shibaura	N844T	TURBOCHARGED	TIER 1 and TIER 2	4 Cyl

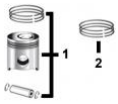
Engine Dimensions:
Bore: 3.3 in / 84.00 mm Stroke: 3.54 in / 90.00 mm Displacemement: 121.7 in3/ 2.0 Lt Compression Ratio: 22.5:1

New Holland
L170 - Skid Steer
L215 - Skid Steer
LS170 - Skid Steer

Case IH
SR150 - Skid Steer

1) **Engine O/H Kit**
- POK848 Std.
- POK849 0.50

2) **Basic Engine Kit**
- PBK848 Std.
- PBK849 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

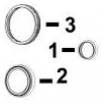
Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

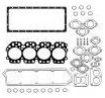
2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020



1) **Front Seal**
- P198636160

2) **Rear Seal**
- P198636170

3) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



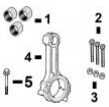
1) **O/H Gasket Set**
- P195907110 [1]

2) **Cyl Head Gsk**
- P111147520

3) **Rocker Box Seal**
- P052109074

4) **Rocker Box Cover Seal**
- P052109072

5) **Oil Pan Gasket**
- P110996920



1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026251

5) **Head Bolt**
- P111136480 x14
- P111136490 x4

1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

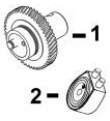
Valve Train Kit
- PVTK440

1) Valve, Intake
2) Valve, Exhaust
- 1) P120166350 x4 [3]
- 2) P120176360 x4 [4]

3) Spring, Valve
- P198216700 x8

4) Retainer, Valve Spring
- P120186080 x8 [6]

5) Lock, Valve
- P120226070 x16



1) **Oil Pump**
- PU5MK8266 [5]
- PU5MK8267 [5]

2) **Oil Cooler**
- P2486A218

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

Thermostat
- P145206182

Repair Sleeve
- 84RS

Turbocharger
- P135756170 [5]

(1): Does not include Crankshaft Oil Seals.
(2): Must verify valve head diameter before ordering.
(3): 37mm head diameter.
(4): 33mm head diameter.
(5): Check application for proper usage.
(6): Not included in Valve Train Kit.

N844L SHIBAURA TIER 1 & 2

Engine Series:
Shibaura

Engine Model:
N844L

Engine Desc:
NATURALLY ASPIRATED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 135 in3/ 2.216 Lt
Compression Ratio: 23.3:1

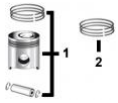
New Holland
L213 - Skid Steer
3415 - Tractor
TC45 - Tractor
TC45A - Tractor
TC45D - Tractor
TC45DA - Tractor
TC45DA - Tractor
TC48DA - Tractor

Case IH
SR130 - Skid Steer
410 - Skid Steer
D45 - Tractor
DX45 - Tractor
DX48 - Tractor

Marine Power Systems
422GM

1) **Engine O/H Kit**
- POK404 Std.
- POK405 0.50

2) **Basic Engine Kit**
- PBK404 Std.
- PBK405 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017491 Std.
- P115017491B 0.50

4 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

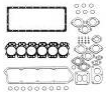
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 3

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



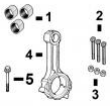
1) **O/H Gasket Set**
- PU5LC0017 1

2) **Cyl Head Gsk**
- P111147741

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920



1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4

1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) Valve, Intake
2) Valve, Exhaust
- 1) P120166350 x4
- 2) P120176360 x4

3) Spring, Valve
- P198216700 x8

4) Retainer, Valve Spring
- P120186080 x8 5

5) Lock, Valve
- P120226070 x16

1) **Oil Pump**
- PU5MK8266

2) **Oil Cooler**
- P2486A218

1) **Lift Pump**
- P130506351 2

2) **Thermostat**
- P145206182

3) **Injector**
- P131406490 4

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

Repair Sleeve
- 84RS

Fuel Lines
- 1) P131507700 6
- 2) P131507710 6
- 3) P131507720 6
- 4) P131507730 6

(1): Does not include Crankshaft Oil Seals.

(2): Use with HP Builds.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(4): Use with HP and HPC Builds.

(5): Not included in valve train kit.

N844LT SHIBAURA TIER 1 & 2

Engine Series:
Shibaura

Engine Model:
N844LT

Engine Desc:
TURBOCHARGE

Engine Info:
4 Cyl

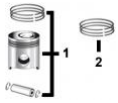
Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 135 in3/ 2.216 Lt
Compression Ratio: 23.3:1

New Holland
C175 - Skid Steer
L175 - Skid Steer
LS175 - Skid Steer
L215 - Skid Steer
L218 - Skid Steer
L220 - Skid Steer
L170 - Skid Steer
L216 - Skid Steer
TC55DA - Tractor

Case IH
420 - Skid Steer
420CT - Skid Steer
SR160 - Skid Steer
SV185 - Skid Steer
DX55 - Tractor

1) **Engine O/H Kit**
- POK406 Std.
- POK407 0.50

2) **Basic Engine Kit**
- PBK406 Std.
- PBK407 0.50
- Spec Sheet - 400C Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

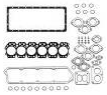
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 3

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



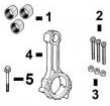
1) **O/H Gasket Set**
- P404TOG 1

2) **Cyl Head Gsk**
- P111147741

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920



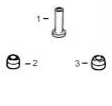
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) **Valve, Intake**
2) **Valve, Exhaust**
- 1) P120166350 x4
- 2) P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 4

5) **Lock, Valve**
- P120226070 x16

1) **Oil Pump**
- PU5MK8266 5
- PU5MK8267 5

2) **Oil Cooler**
- P2486A218

1) **Water Pump**
- P145017951

2) **Gasket, W Pump**
- P145996921

1) **Lift Pump**
- P130506351 2

2) **Thermostat**
- P145206182

3) **Atomiser**
- P131406490

Repair Sleeve
- 1) 84RS

2) **Cylinder Head**
- PTPN488UF 6

Turbocharger
- P135756180 5
- P135756170 5

Fuel Lines
- 1) P131507700 5
- 2) P131507710 5
- 3) P131507720 5
- 4) P131507730 5

(1): Does not include Crankshaft Oil Seals.

(2): Use with HR Build.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(4): Not included in valve train kit.

(5): Check application for proper usage.

(6): For use on 400 series engines only where the intake manifold is part of the cylinder head cover.

N844L-D SHIBAURA TIER 3

Engine Series:
Shibaura

Engine Model:
N844L-D

Engine Desc:
NATURALLY ASPIRATED

Engine Data:

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 134.25 in3 /2.2 Lt
Compression Ratio: 23.3:1

Case IH

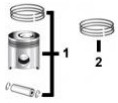
Farmall45 - Tractor
Farmall45A - Tractor
Farmall45B - Tractor
Farmall50 - Tractor
Farmall50B - Tractor
SR130 - Skid Steer

New-Holland

L213 - Skid Steer
Workmaster 45 - Tractor

1) **Engine O/H Kit**
- POK464 Std.
- POK465 0.50

2) **Basic Engine Kit**
- PBK464 Std.
- PBK465 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017491 Std.
- P115017491B 0.50

4 Per Engine

2) **Ring Set**
- P115107970 Std.
- P115107970B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

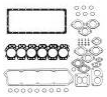
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- P404DTOG 1

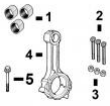
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920

6) **Timing Gasket Cover**
- P165996590 6
- P165996600 6
- P165996630 6



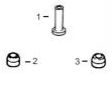
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

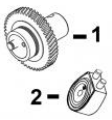
Valve Train Kit
- PVTK440

1) Valve, Intake
2) Valve, Exhaust
- 1) P120166350 x4
- 2) P120176360 x4

3) Spring, Valve
- P198216700 x8

4) Retainer, Valve Spring
- P120186080 x8 4

5) Lock, Valve
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

Water Pump
- PU45010062

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490 3

Repair Sleeve
- 1) 84RS

2) **Cylinder Head**
- P111011030UF 5

Fuel Lines
- 1) P131507700 5
- 2) P131507710 5
- 3) P131507720 5
- 4) P131507730 5

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Use with GN Build, 404D-22 Engine.

(4): Not included in valve train kit.

(5): For use on 400 series engines only where the intake manifold is part of the cylinder head cover.

(6): Included in P404DTOG.

N844LT-D SHIBAURA TIER 3

Engine Series:
Shibaura

Engine Model:
N844LT-D

Engine Desc:
TURBOCHARGE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 134.25 in3 / 2.2 Lt
Compression Ratio: 23.3:1

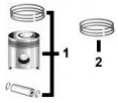
Shibaura Tractors
ST450
ST460

New Holland
Workmaster 55 - Tractor

Case IH
410 - Skid Steer
SV185 - Skid Steer
SR175 - Skid Steer
DX55 - Tractor

1) **Engine O/H Kit**
- POK466 Std.
- POK467 0.50

2) **Basic Engine Kit**
- PBK466 Std.
- PBK467 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

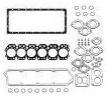
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- P404DTOG 1

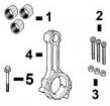
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920

6) **Timing Gasket Cover**
- P165996590 5
- P165996600 5
- P165996630 5



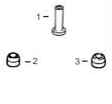
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

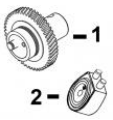
Valve Train Kit
- PVTK440

1) **Valve, Intake**
2) **Valve, Exhaust**
- 1) P120166350 x4
- 2) P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 3

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

Water Pump
- PU45010062 4
- P145017951 4

1) **Lift Pump**
- P130506351 4

2) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111011090UF 4

Turbocharger
- P135756180 4
- P135756170 4

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Not included in valve train kit.

(4): Check application for proper usage.

(5): Included in P404DTOG.

N844LTA-D SHIBAURA TIER 3

Engine Series:
Shibaura

Engine Model:
N844LTA-D

Engine Desc:
TURBOCHARGE AFTERCOOLED

Engine Info:
4 Cyl

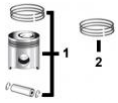
Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacemement: 134.25 in3/ 2.2 Lt
Compression Ratio: 23.3:1

Case IH
DX55 - Tractor
SR175 - Skid Steer
SV185 - Skid Steer

New Holland
C175 - Skid Steer
L175 - Skid Steer
L215 - Skid Steer
L218 - Skid Steer
L220 - Skid Steer
T2420 - Tractor

1) **Engine O/H Kit**
- POK468 Std.
- POK469 0.50

2) **Basic Engine Kit**
- PBK468 Std.
- PBK469 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) **Ring Set**
- P115104021 Std.
- P115104021B 0.50

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

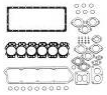
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- P115376040 109T
- PU15376160 126T



1) **O/H Gasket Set**
- P404DTOG 1

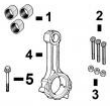
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920

6) **Timing Gasket Cover**
- P165996590 5
- P165996600 5
- P165996630 5



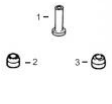
1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Connecting Rod**
- P115026330

5) **Head Bolt**
- P111136480 x14
- P111136490 x4



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

Valve Train Kit
- PVTK440

1) **Valve, Intake**
2) **Valve, Exhaust**
- 1) P120166350 x4
- 2) P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 3

5) **Lock, Valve**
- P120226070 x16

1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

Water Pump
- PU45010062

1) **Lift Pump**
- P130506351 4

2) **Thermostat**
- P145206230

1) **Repair Sleeve**
- 84RS

2) **Cylinder Head**
- P111011090UF 4

Turbocharger
- P135756180 4
- P135756170 4

Fuel Lines
- 1) P131507700 4
- 2) P131507710 4
- 3) P131507720 4
- 4) P131507730 4

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Not included in valve train kit.

(4): Check application for proper usage.

(5): Included in P404DTOG.

N844L-F SHIBAURA TIER 4

Engine Series:
Shibaura

Engine Model:
N844L-F

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
INDIRECT INJECTION

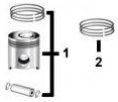
Engine Dimensions:
Bore: 3.3", 84mm Stroke: 3.9", 100mm Displacemement: in3 Compression Ratio: 23.3:1

New Holland
L213 - Skid Steer

Case IH
SR130 - Skid Steer

1) **Engine O/H Kit**
- POK520 Std.
- POK521 0.50

2) **Basic Engine Kit**
- PBK520 Std.
- PBK521 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017790 Std.
- P115017790B 0.50

4 Per Engine

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

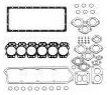
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020



1) **O/H Gasket Set**
- P404DTOG 1

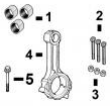
2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920

6) **Timing Gasket Cover**
- P165996590 5
- P165996600 5
- P165996630 5

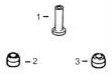


1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

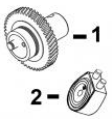
Valve Train Kit
- PVTK440

1) **Valve, Intake**
2) **Valve, Exhaust**
- 1) P120166350 x4
- 2) P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 4

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

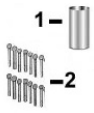
2) **Oil Cooler**
- P2486A218

Water Pump
- PU45010062

1) **Lift Pump**
- P130506351

2) **Thermostat**
- P145206230

3) **Atomiser**
- P131406490 3



1) **Repair Sleeve**
- 84RS

2) **Head Bolts**
- P111136480 x14
- P111136490 x4

(1): Crankshaft oil seals and after-treatment component (EGR) gaskets are not included in the gasket set

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(3): Check application for proper usage.

(4): Under development, not included in Valve Train Kit.

(5): Included in P404DTOG.

N844LT-F SHIBAURA TIER 4

Engine Series:	Engine Model:	Engine Desc:	Engine Data:	Engine Dimensions:
Shibaura	N844LT-F	TURBOCHARGED	INDIRECT INJECTION	Bore: 3.3", 84mm Stroke: 3.9", 100mm Displacement:135 in3 Compression Ratio: 23.5:1

Case IH

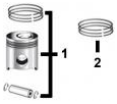
SR160 - Skid Steer
SR175 - Skid Steer
SV185 - Skid Steer

New-Holland

L216 - Skid Steer
L218 - Skid Steer
L220

1) **Engine O/H Kit**
- POK522 Std.
- POK523 0.50

2) **Basic Engine Kit**
- PBK522 Std.
- PBK523 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017800 Std.
- P115017800B 0.50

4 Per Engine

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

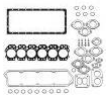
1) **Front Seal**
- P198636160

2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 2

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020



1) **O/H Gasket Set**
- P404DTOG 1

2) **Cyl Head Gsk**
- P111147771

3) **Seal Rocker Box**
- P120996130

4) **Seal, Cyl HD Cov**
- P111996401

5) **Oil Pan Gasket**
- P110996920

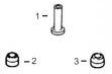
6) **Timing Gasket Cover**
- P165996590 6
- P165996600 6
- P165996630 6

1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330



1) **Tappet**
- P120116160

2) **Seal, Intk Valve**
- P120406070 x4

3) **Seal, Exh Valve**
- P120406050 x4

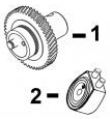
Valve Train Kit
- PVTK440

1) **Valve, Intake**
2) **Valve, Exhaust**
- 1) P120166350 x4
- 2) P120176360 x4

3) **Spring, Valve**
- P198216700 x8

4) **Retainer, Valve Spring**
- P120186080 x8 5

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

Water Pump
- PU45010062

1) **Lift Pump**
-

2) **Thermostat**
- P145206230

Repair Sleeve
- 84RS

Turbocharger
- P135756180 3
- P135756170 3

(1): Crankshaft oil seals and after-treatment component (EGR) gaskets are not included in the gasket set

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(3): Check application for proper usage.

(4): Under development, not included in Valve Train Kit.

(5): Not included in Valve Train Kit.

(6): Included in P404DTOG.

SHIBAURA N4LDI-T, TIER 4B/4F

Engine Series:
Shibaura

Engine Model:
N4LDI-T

Engine Desc:
Turbocharged, Common Rail Injection

Engine Data:
Tier 4

Engine Dimensions:
Bore: 3.3", 84mm Stroke: 3.9", 100mm Displacemement:1 in3

Case IH

SR175 - Skid Steer
SR175B - Skid Steer
SV185 - Skid Steer
SV185B - Skid Steer

New-Holland

L218 - Skid Steer
L220 - Skid Steer

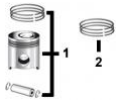
Massey Ferguson

2705E - Tractor
2706E - Tractor

LS Tractor

XU5055 - Tractor
XU5055C - Tractor
XU5065PS - Tractor
XU5065CPS - Tractor

1) **Basic Engine Kit**
- PBK550 Std.
- PBK551 0.50
- Spec Sheet - 400D Series



1) **Piston & Ring Kit**
- P115017810 Std.
- P115017810B 0.50

4 Per Engine

2) **Ring Set**
- P115104130 Std
- P115104130B .50mm

Main Bearing Set
- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

Set of 4 Pairs

Con Rod Bearing Set
- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs

1) **Thrust Washer**
- P199266200/10

Set of 3 Pcs

2) **Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020

1) **Front Seal**
- P198636160

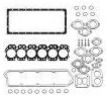
2) **Rear Seal**
- P050209083

3) **Crankshaft**
- P115256990 (2)

4) **Crankshaft Gear**
- PU15276270

5) **Key, Crank Gear**
- P030509020

6) **Flywheel Ring Gear**
- PU15376160 126T



1) **O/H Gasket Set**
- P404FTOG (1)

2) **Cyl Head Gasket**
- P111147771

3) **Oil Pan Gasket**
- P110996920

4) **Timing Cover Gasket**
- P165996740 (4)

5) **Head Cover Seal**
- PU11996520

6) **Rocker Box Seal**
- PU20996250

7) **Exhaust Manifold Gasket**
- PU35997200

8) **Intake Spacer Plate Gasket**
- PU35997170

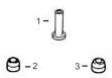
9) **Intake Manifold Gasket**
- PU35997180

1) **Bush, Con Rod**
- P198517265 x4

2) **Bolt, Con Rod**
- P115176140 x8

3) **Nut, Con Rod**
- P020109120 x8

4) **Con Rod**
- P115026330



1) **Tappet**
- P120116160

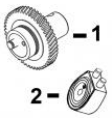
2) **Valve Seal**
- P120406070 x8

1) **Valve, Intake**
2) **Valve, Exhaust**

3) **Spring, Valve**
- P198217470 x8

4) **Retainer, Valve Spring**
- P120186080 x8

5) **Lock, Valve**
- P120226070 x16



1) **Oil Pump**
- PU5MK8267

2) **Oil Cooler**
- P2486A218

1) **Water Pump**
- PU45010062

2) **Gasket, Water Pump**
- P145996921

3) **Thermostat**
- P145206230

Repair Sleeve
- 84RS

1) **Turbocharger**
- P135756252 (3)

(1): Does not include crankshaft seals

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(3): Check application for proper usage.

(4): For covers with 4 bolt auxiliary drive

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
DT360	From ESN 39375	IHC Navistar	6 Cyl	Bore: 4.01 in / 101.90 mm

Engine I/F Kit
- 1817253
- SPEC SHEET - 1817253

Piston-Liner Kit
- 1817250 4 3

Consists of:
- a) 1817178 3
- b) 1809935
- c) 1809938

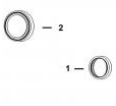
Ring, Piston
- 1817251 3

Main Bearing
- 1823859 Std.
- 1823860 0.010
- 1823861 0.020

Set of 7 Pairs

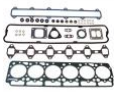
Con Rod Bearing
- 1823863 Std.
- 1823864 0.010
- 1823865 0.020

Set of 6 Pairs



1) Front Seal
- 690437

2) Rear Seal
- 1809964



1) O/H Set, Cyl Head
- 1817255

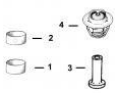
2) O/H Set, Crankcase
- 1817256

3) Head Gasket
- 1819546

4) Oil Pan Gasket
- 671825

5) Oil Suction Gasket
- 1802867

6) Gasket, Intake Manifold
- 682199



1) Bush, Con Rod
- 1810049

2) Bushing, Cam
- 680117

3) Tappet
- 1802340

4) Thermostat
- 1801191 180° F

1) Oil Pump
- 1802666 1
- 1808832 2

2) Water Pump
- 1815538
- 685155

Valve, Intake
- 676687

Valve, Exhaust
- 1810086

Insert, Valve

1) Intake
- 671602

2) Exhaust
- 671599

1) Guide, Valve
- 675439 1

2) Seal, Stem
- 1815374

Spring, Valve
- 682064

(1): Turbocharged.(2) Turbocharged, Aftercooled.(3) Replace in sets only for ESN 39375 to 90975

(2): Turbocharged, Aftercooled.(3) Replace in sets only for

(3): Replace in sets only for ESN 39375 to 90975

(4): Ring sets not included.

Engine Model:
DT414

Engine Data:
IHC
Navistar

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.3005 in / 109.23 mm
Stroke: 4.75 in / 120.70 mm

Agricultural
915
1066
1086

1) **Engine O/H Kit**
- NOKDT414

2) **Engine I/F Kit**
- NIKDT414
- SPEC SHEET - NOKDT414

Piston-Liner Kit
- 684260

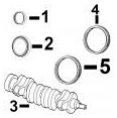
Consists of:
- a) 684251
- b) 684256
- c) 1810504
- d) 680086

Main Bearing
- 1823847 Std.
- 1823848 0.010
- 1823849 0.020
- 1823850 0.030

Set of 7 Pairs

Con Rod Bearing
- 1823855 Std.
- 1823856 0.010
- 1823857 0.020
- 1823858 0.030

Set of 6 Pairs

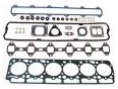


1) **Front Seal**
- 690437

2) **Rear Seal**
- 1809964

3) **Crankshaft**
- 675050

4) **Flywheel Ring Gear**
- 326759 132T [4]
- 341604 132T [4]



1) **O/H Set, Cyl Head**
- 1817254

2) **O/H Set, Crankcase**
- 674399

3) **Head Gasket**
- 1819547

4) **Oil Pan Gasket Set**
- 671827SET

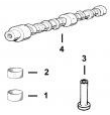
5) **Valve Cover Gasket**
- 1342828

6) **Gasket, Intake Manifold**
- 682199

7) **Gasket, Exh. Manifold**
- 1349062

8) **Gasket, Oil Suction Tube**
- 671821

9) **Oil Suction Gasket**
- 1802867



1) **Bush, Con Rod**
- 675006

2) **Bushing, Cam**
- 680117

3) **Tappet**
- 684729
- 1802340

4) **Camshaft**
- 1802337

Valve Train Kit [3]
- NVK400

1) **Valve, Intake**
- x6) 675046

2) **Valve, Exhaust**
- 676865 x6

Insert, Valve

1) **Intake**
- 671559 x6

2) **Exhaust**
- 671563 x6

1) **Guide, Valve**
- 675439 x12

2) **Lock, Valve**
- 76951 x24

3) **Valve Rotator**
- 1811581 x12

1) **Spring, Valve**
- 682064 x12

2) **Seal, Stem**
- 681234 x6

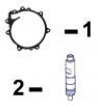
3) **Fuel Injector Tube**
- 675442 x6

Thermostat
- 1801191 180° F

Head Bolts
- 676119 x6
- 676120 x20

Oil Pump
- 1802666 [1]
- 1808832 [2]

Water Pump
- 673162



1) **Water Pump Gasket**
- 675808

2) **Injector**
- 631571 [4]
- 687372 [4]

(1): Turbocharged, 1.0" Rotor. To ESN 466,775.

(2): Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(3): Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

(4): Check application for proper usage.

Engine Model:
DT436

Engine Data:
IHC Navistar

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.3005 in / 109.23 mm
Stroke: 5.04 in / 128.00 mm

Agricultural
3388
1460
4166
1480
4186
1466
5088
1486
6388
1566
1586

1) **Engine O/H Kit**
- NOKDT436

2) **Engine I/F Kit**
- NIKDT436
- SPEC SHEET - NOKDT436

Piston-Liner Kit
- 684261

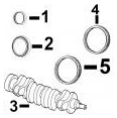
Consists of:
- a) 684253
- b) 684256
- c) 1810504
- d) 680086

Main Bearing
- 1823847 Std.
- 1823848 0.010
- 1823849 0.020
- 1823850 0.030

Set of 7 Pairs

Con Rod Bearing
- 1823855 Std.
- 1823856 0.010
- 1823857 0.020
- 1823858 0.030

Set of 6 Pairs

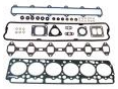


1) **Front Seal**
- 690437

2) **Rear Seal**
- 1809964

3) **Crankshaft**
- 675051

4) **Flywheel Ring Gear**
- 326759 132T [4]
- 341604 132T [4]



1) **O/H Set, Cyl Head**
- 1817254

2) **O/H Set, Crankcase**
- 674399

3) **Head Gasket**
- 1819547

4) **Oil Pan Gasket Set**
- 671827SET

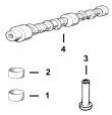
5) **Valve Cover Gasket**
- 1342828

6) **Gasket, Intake Manifold**
- 682199

7) **Gasket, Exh. Manifold**
- 1349062

8) **Gasket, Oil Suction Tube**
- 671821

9) **Oil Suction Gasket**
- 1802867



1) **Bush, Con Rod**
- 675006

2) **Bushing, Cam**
- 680117

3) **Tappet**
- 684729
- 1802340

4) **Camshaft**
- 1802337

1) **Con Rod Bolts**
- 676679

2) **Head Bolts**
- 676119 x6
- 676120 x20

Valve Train Kit [3]
- NVK400

1) **Valve, Intake**
- 675046 x6

2) **Valve, Exhaust**
- 676865 x6

Insert, Valve
1) **Intake**
- 671559 x6

2) **Exhaust**
- 671563 x6

1) **Guide, Valve**
- 675439 x12

2) **Lock, Valve**
- 76951 x24

3) **Valve Rotator**
- 1811581 x12

1) **Spring, Valve**
- 682064 x12

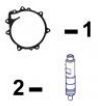
2) **Seal, Stem**
- 681234 x6

3) **Fuel Injector Tube**
- 675442 x6

Thermostat
- 1801191 180° F

Oil Pump
- 1802666 [1]
- 1808832 [2]

Water Pump
- 673162



1) **Water Pump Gasket**
- 675808

2) **Injector**
- 631571 [4]
- 687372 [4]

(1): Turbocharged, 1.0" Rotor. To ESN 466,775.

(2): Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(3): Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

(4): Check application for proper usage.

Engine Model:
DT466

Engine Desc:
To ESN 440,035

Engine Data:
Narrow Bearings
Rod Bearing Width: 1.20"
Main Bearing Width: 1.225"
IHC
Navistar

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.3005 in / 109.23 mm
Stroke: 5.35 in / 135.90 mm

Agricultural
5488 Early
1470
6588
1480 Early
6788
3588
7288 Early
3788
7388 Early
4366 Early
4386

1) **Engine O/H Kit**
- NOKDT466N

2) **Engine I/F Kit**
- 1825442
- SPEC SHEET - NOKDT466N

Piston-Liner Kit
- 1817645

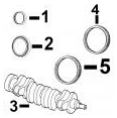
Consists of:
- a) 1817520
- b) 1817247
- c) 1810504
- d) 680086

Main Bearing
- 1823847 Std.
- 1823848 0.010
- 1823849 0.020
- 1823850 0.030

Set of 7 Pairs

Con Rod Bearing
- 1823855 Std.
- 1823856 0.010
- 1823857 0.020
- 1823858 0.030

Set of 6 Pairs

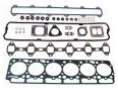


1) **Front Seal**
- 690437

2) **Rear Seal**
- 1809964

3) **Crankshaft**
- 675669

4) **Flywheel Ring Gear**
- 326759 132T [8]
- 341604 132T [8]



1) **O/H Set, Cyl Head**
- 1817254

2) **O/H Set, Crankcase**
- 674399

3) **Head Gasket**
- 1819547

4) **Oil Pan Gasket Set**
- 671827SET

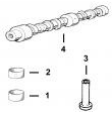
5) **Valve Cover Gasket**
- 1342828

6) **Gasket, Intake Manifold**
- 682199

7) **Gasket, Exh. Manifold**
- 1349062

8) **Gasket, Oil Suction Tube**
- 671821

9) **Oil Suction Gasket**
- 1802867



1) **Bush, Con Rod**
- 675006

2) **Bushing, Cam**
- 680117

3) **Tappet**
- 684729
- 1802340

4) **Camshaft**
- 1802337

1) **Con Rod Bolts**
- 676679

2) **Head Bolts**
- 676119 x6
- 676120 x20

Valve Train Kit
- NVK400 [7]

1) **Valve, Intake**
- 675046 x6

2) **Valve, Exhaust**
- 676865 x6

Insert, Valve
1) **Intake**
- 671559 x6

2) **Exhaust**
- 671563 x6

1) **Guide, Valve**
- 675439 x12 [1]
- 1815264 x12 [2]

2) **Lock, Valve**
- 76951 x24

3) **Valve Rotator**
- 1811581 x12

1) **Spring, Valve**
- 682064 x12

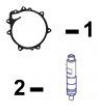
2) **Seal, Stem**
- 681234 x6 [1]
- 1815374 x6 [2]

3) **Fuel Injector Tube**
- 675442 x6

Thermostat
- 1801191 180° F

Oil Pump
- 1802666 [3]
- 1808832 [4]

Water Pump
- 1815538 [5]
- 685155 [5]
- 673162 [6]



1) **Water Pump Gasket**
- 675808

2) **Injector**
- 687372 [8]

Injection Control Pressure Sensor
- 1830669

(1): To ESN 594,839.
(2): From ESN 594,840.
(3): Turbocharged, 1.0" Rotor. To ESN 466,775.
(4): Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.
(5): Use for truck applications.
(6): Use for AG applications.
(7): Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.
(8): Check application for proper usage.

Engine Model:
DT466 (esn 440,036 - 567,491)

Engine Desc:
Perkins 1300 Series

Engine Data:
Perkins Build WB- T6.466
Perkins Build WC- CC6.466
Wide Bearings
Rod Bearing Width: 1.26"
Main Bearing Width: 1.229"

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.3005 in / 109.23 mm
Stroke: 5.35 in / 135.90 mm

Please see page **664** for a complete list of equipment models.

1) **Engine O/H Kit**
- NOKDT466W [12]

2) **Engine I/F Kit**
- 1825443 [13]
- SPEC SHEET - NOKDT466W

Piston-Liner Kit
- 1817645

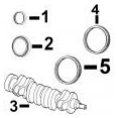
Consists of:
- a) 1817520
- b) 1817247
- c) 1810504
- d) 680086

Main Bearing
- 1823843 Std.
- 1823844 0.010
- 1823845 0.020

Set of 7 Pairs

Con Rod Bearing
- 1823851 Std.
- 1823852 0.010
- 1823853 0.020

Set of 6 Pairs

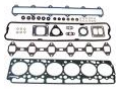


1) **Front Seal**
- 690437

2) **Rear Seal**
- 1809964

3) **Crankshaft**
- 675669

4) **Flywheel Ring Gear**
- 326759 132T [8]
- 341604 132T [8]



1) **Head Gasket Set**
- 1817254

2) **Lower Gasket Set**
- 674399 [14]

3) **Head Gasket**
- 1819547

4) **Oil Pan Gasket Set**
- 671827SET

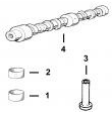
5) **Valve Cover Gasket**
- 1342828

6) **Gasket, Intake Manifold**
- 682199

7) **Gasket, Exh. Manifold**
- 1349062

8) **Gasket, Oil Suction Tube**
- 671821

9) **Oil Suction Gasket**
- 1802867



1) **Bush, Con Rod**
- 675006

2) **Bushing, Cam**
- 680117

3) **Tappet**
- 684729
- 1802340

4) **Camshaft**
- 1802337

1) **Con Rod Bolts**
- 676679

2) **Head Bolts**
- 676119 x6
- 676120 x20

Valve Train Kit
- NVK400 [7]

1) Valve, Intake
2) Valve, Exhaust
- 1) 675046 x6
- 2) 676865 x6

Insert, Valve
1) Intake
2) Exhaust
- 1) 671559 x6
- 2) 671563 x6

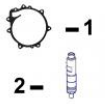
1) Guide, Valve
2) Lock, Valve
3) Valve Rotator
- 1) 675439 x12 [10] [1]
- 1815264 x12 [11] [2]
- 2) 76951 x24
- 3) 1811581 x12 [10]

1) Spring, Valve
2) Seal, Stem
3) Fuel Injector Tube
- 1) 682064 x12 [9]
- 2) 681234 x6 [10] [1]
- 1815374 x6 [11] [2]
- 3) 675442 x6

Thermostat
- 1801191 180° F

Oil Pump
- 1802666 [3]
- 1808832 [4]

Water Pump
- 1815538 [5]
- 685155 [5]
- 673162 [6]



1) **Water Pump Gasket**
- 675808

2) **Injector**
- 687372 [8]

Injection Control Pressure Sensor
- 1830669

(1): To ESN 594,839.

(2): From ESN 594,840.

(3): Turbocharged, 1.0" Rotor. To ESN 466,775.

(4): Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(5): Use for truck applications.

(6): Use for AG applications.

(7): Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

(8): Check application for proper usage.

(9): For engines to serial number 532980.

(10): For engines to serial number 594,839.

(11): For engine serial number 594,840 and up.

(12): O/H kit can be used for engines with ESN 440,036-567,491. ESN 567,492 and later require different lower gasket set not currently offered by Maxiforce.

(13): I/F kit can be used for engines with ESN 440,036-850,653.

(14): Used on engines up to ESN 567,491.

FPT IVECO NEF – N45 PISTON #87317238

Engine Series:
N45

Engine Model:
F4CE & F4GE

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Tier 3 – 2 Valves per Cylinder

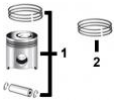
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 274.607 in3 /4.5 Lt

Please see page **665** for a complete list of equipment models.

Basic Kit
- FOK7238/4 Std. 1
- FOK7243/4 0.40 1
- FOK7249/4 0.80 1

Inframe Kit
- FIK7238/4 Std. 1
- FIK7243/4 0.40 1
- FIK7249/4 0.80 1



1) **Piston & Ring Kit**
- F87317238 Std.
- F87317243 0.40mm
- F87317249 0.80mm

2) **Ring Set**
- F87316211 Std.
- F87316213 0.40mm
- F87316214 0.80mm

4 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 4 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

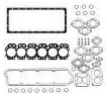
Use 4 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- FN45OHK 1

2) **Top Gasket Set**
- FN45IFK 2

3) **Head Gasket**
- F2830920 1.15mm Thick
- F2830919 1.25mm Thick

4) **Valve Cover Gasket**
- F2852033 x4

5) **Oil Pan Gasket**
- F2852012 Paper 3
- F4897877 Rubber 3
- F4894295 Metal 3
- F2830645 Metal 3

6) **Exhaust Manifold Gasket**
- F2852743 x4

7) **Intake Manifold Gasket**
- F4899921 x2

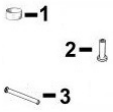
8) **Injection Pump Gasket**
- F2852885 x1

1) **Bush, Con Rod**
- F4892708 x4

2) **Connecting Rod**
- F2831298 x4

3) **Connecting Rod Bolt**
- F2831297 x8

4) **Head Bolts**
- F4892861
- F4892859



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4895180 x8

3) **Pushrod**
- F4895361 x8

Valve Train

Valve, Intake
- F4895187 x4

Valve, Exhaust
- F3802356 x4

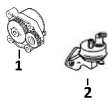
Valve, Insert Intake
- F4897178 x4

Valve, Insert Exhaust
- F4897179 x4

Spring, Valve
- F4895215 x8

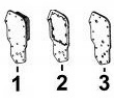
Lock, Valve
- F4895183 x16

Valve Stem Seal
- F4895347 x8



1) **Oil Pump**
- F4897480

2) **Fuel Transfer Pump**
- F2830266



1) **Oil Cooler**
- F2853722 5 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 3

Injector
- F2853346 x4 3

Repair Sleeve
- F2995665 x4

(1): The kit includes Head Gasket (F2830920) – 1.15mm thick. It does not include the Oil Pan Gasket nor Valve Steam Seals; please order these separately.
(2): Set contains Head Gasket F2830923 – 1.15mm Thick, Front and Rear Crankshaft Seal. Valve Steam Seals are not included.
(3): Verify Application.

FPT IVECO NEF – N45 PISTON #8094740

Engine Series:
N45

Engine Model:
F4CE & F4GE

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 3 – 2 Valves per Cylinder

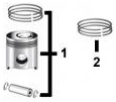
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 274.607 in3 /4.5 Lt

Please see page **666** for a complete list of equipment models.

Basic Kit
- FOK4740/4 Std. 1
- FOK7252/4 0.40 1
- FOK7253/4 0.80 1

Inframe Kit
- FIK4740/4 Std. 1
- FIK7252/4 0.40 1
- FIK7253/4 0.80 1



1) **Piston & Ring Kit**
- F8094740 Std.
- F87317252 0.40mm
- F87317253 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

4 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 4 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

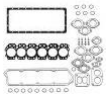
Use 4 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- FN45OHK 1

2) **Top Gasket Set**
- FN45IFK 2

3) **Head Gasket**
- F2830920 1.15mm Thick
- F2830919 1.25mm Thick

4) **Valve Cover Gasket**
- F2852033 x4

5) **Oil Pan Gasket**
- F2852012 Paper 3
- F4897877 Rubber 3
- F4894295 Metal 3
- F2830645 Metal 3

6) **Exhaust Manifold Gasket**
- F2852743 x4

7) **Intake Manifold Gasket**
- F4899921 x2

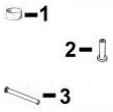
8) **Injection Pump Gasket**
- F2852885 x1

1) **Bush, Con Rod**
- F4892708 x4

2) **Connecting Rod**
- F2831298 x4

3) **Connecting Rod Bolt**
- F2831297 x8

4) **Head Bolts**
- F4892861
- F4892859



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4895180 x8

3) **Pushrod**
- F4895361 x8

Valve Train

Valve, Intake
- F4895187 x4

Valve, Exhaust
- F3802356 x4

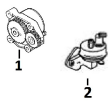
Valve, Insert Intake
- F4897178 x4

Valve, Insert Exhaust
- F4897179 x4

Spring, Valve
- F4895215 x8

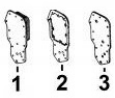
Lock, Valve
- F4895183 x16

Valve Stem Seal
- F4895347 x8



1) **Oil Pump**
- F4897480

2) **Fuel Transfer Pump**
- F2830266



1) **Oil Cooler**
- F2853722 5 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

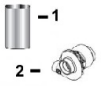
3) **Oil Cooler Gasket**
- F4896409 x1

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 3

Injector
- F2856255 x4 3
- F2852056 x4 3



1) **Repair Sleeve**
- F2995665 x4

2) **Turbochargers**
- F3599879 3
- F3599350 3
- F4045275 3

(1): The kit includes Head Gasket (F2830923) – 1.15mm thick. It does not include the Oil Pan Gasket nor Valve Steam Seals; please order these separately.
(2): Set contains Head Gasket F2830920 – 1.15mm Thick, Front and Rear Crankshaft Seal. Valve Steam Seals are not included.
(3): Verify Application.

FPT IVECO NEF – N45 PISTON #8097543

Engine Series:
N45

Engine Model:
F4DE & F4HE

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 274.607 in3 /4.5 Lt

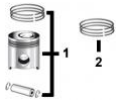
CASE IH - TRACTOR
MAXXUM 120
MAXXUM 130

NEW HOLLAND - TRACTOR
T6020
T6040
T6050
T6060

NEW HOLLAND - WHEEL LOADER
W110B

ENGINE TYPE
F4HE9484MJ100

Basic Kit
- FOK7543/4 Std. [1]
- FOK7544/4 0.40 [1]
- FOK7545/4 0.80 [1]



1) **Piston & Ring Kit**
- F8097543 Std.
- F8097544 0.40mm
- F8097545 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

4 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 4 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

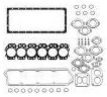
Use 4 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- F8093914 [2]

3) **Head Gasket**
- F2830706 1.25mm Thick

4) **Valve Cover Gasket**
- F4899228 x1 Upper
- F4899230 x1 Lower

5) **Oil Pan Gasket**
- F2852012 Paper [3]
- F4897877 Rubber [3]
- F4894295 Metal [3]
- F2830645 Metal [3]

6) **Exhaust Manifold Gasket**
- F2830444 x4

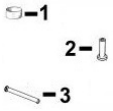
7) **Intake Manifold Gasket**
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x4

2) **Connecting Rod**
- F2831298 x4

3) **Connecting Rod Bolt**
- F2831297 x8

4) **Head Bolts**
- 4891024 x8
- 4891025 x10



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4899803 x16

3) **Pushrod**
- F4895031 x16

Valve Train

Valve, Intake
- F4895052 x8

Valve, Exhaust
- F4895051 x8

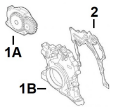
Insert, Valve Intake
- F4897578 x8

Insert, Valve Exhaust
- F4897106 x8

Spring, Valve
- F4895073 x16

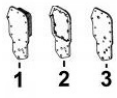
Lock, Valve
- F4899081 x32

Seal, Valve Stem
- F2831287 x16



1) **Oil Pump**
- A) F4897480 x1 [3]
- B) F2830913 x1 [3]

2) **Gasket Oil Pump**
- F2830972 x1 [5]



1) **Oil Cooler**
- F2853722 5 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 [3]
- F2831317 x1 [3]

1) **Water Pump**
- F2854835 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 [3]

Injector
- F2855135 x4 [3]
- F2855491 x4 [3]

Repair Sleeve
- F2995665 x4

(1): Kit includes does not include the oil pan gasket; please order it separately.
(3): Verify Application.
(5): Gasket only for Oil Pump F2830972

(2): Set contains Head Gasket, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(4): Included in Overhaul Gasket Kit

FPT IVECO NEF – N45 PISTON #8094846

Engine Series:
N45

Engine Model:
F4DE & F4HE

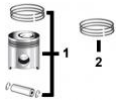
Engine Desc:
TURBOCHARGE

Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 274.607 in3 /4.5 Lt

Basic Kit
- FOK4846/4 Std. — 1
- FOK4848/4 0.40 — 1
- FOK2047/4 0.80 — 1



1) **Piston & Ring Kit**
- F8094846 Std.
- F8094848 0.40mm
- F87582047 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

4 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 4 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

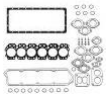
Use 4 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- F8093914 — 2

3) **Head Gasket**
- F2830706 1.25mm Thick

4) **Valve Cover Gasket**
- F4899228 x1 Upper
- F4899230 x1 Lower

5) **Oil Pan Gasket**
- F2852012 Paper — 3
- F4897877 Rubber — 3
- F4894295 Metal — 3
- F2830645 Metal — 3

6) **Exhaust Manifold Gasket**
- F2830444 x4

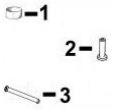
7) **Intake Manifold Gasket**
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x4

2) **Connecting Rod**
- F2831298 x4

3) **Connecting Rod Bolt**
- F2831297 x8

4) **Head Bolts**
- 4891024 x8
- 4891025 x10



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4899803 x16

3) **Pushrod**
- F4895031 x16

Valve Train

Valve, Intake
- F4895052 x8

Valve, Exhaust
- F4895051 x8

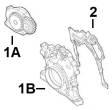
Insert, Valve Intake
- F4897578 x8

Insert, Valve Exhaust
- F4897106 x8

Spring, Valve
- F4895073 x16

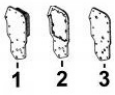
Lock, Valve
- F4899081 x32

Seal, Valve Stem
- F2831287 x16



1) **Oil Pump**
- A) F4897480 x1 — 3
- B) F2830913 x1 — 3

2) **Gasket Oil Pump**
- F2830972 x1 — 5



1) **Oil Cooler**
- F2853722 5 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 — 3
- F2831317 x1 — 3

1) **Water Pump**
- F2854835 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 — 3

Injector
- F2855135 x4 — 3
- F2855491 x4 — 3

Repair Sleeve
- F2995665 x4

(1): Kit includes does not include the oil pan gasket; please order it separately.
(3): Verify Application.
(5): Gasket Only for Oil Pump F2830913

(2): Set contains Head Gasket, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(4): Included in Overhaul Gasket Kit

FPT IVECO NEF – N45 PISTON #87317256

Engine Series:
N45

Engine Model:
F4DE & F4HE

Engine Desc:
TURBOCHARGE

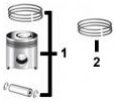
Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 274.607 in3 /4.5 Lt

Please see page **667** for a complete list of equipment models.

Basic Kit
- FOK7256/4 Std. 1
- FOK7257/4 0.40 1
- FOK7258/4 0.80 1



1) **Piston & Ring Kit**
- F87317256 Std.
- F87317257 0.40mm
- F87317258 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

4 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 4 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

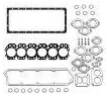
Use 4 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- F8093914 2

3) **Head Gasket**
- F2830706 1.25mm Thick

4) **Valve Cover Gasket**
- F4899228 x1 Upper
- F4899230 x1 Lower

5) **Oil Pan Gasket**
- F2852012 Paper 3
- F4897877 Rubber 3
- F4894295 Metal 3
- F2830645 Metal 3

6) **Exhaust Manifold Gasket**
- F2830444 x4

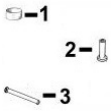
7) **Intake Manifold Gasket**
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x4

2) **Connecting Rod**
- F2831298 x4

3) **Connecting Rod Bolt**
- F2831297 x8

4) **Head Bolts**
- 4891024 x8
- 4891025 x10



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4899803 x16

3) **Pushrod**
- F4895031 x16

Valve Train

Valve, Intake
- F4895052 x8

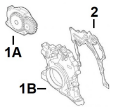
Valve, Exhaust
- F4895051 x8

Insert, Valve Intake
- F4897578 x8

Insert, Valve Exhaust
- F4897106 x8
- F4895073 x16

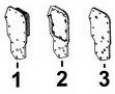
Lock, Valve
- F4899081 x32

Seal, Valve Stem
- F2831287 x16



1) **Oil Pump**
- A) F4897480 x1 3
- B) F2830913 x1 3

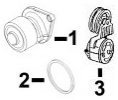
2) **Gasket Oil Pump**
- F2830972 x1 5



1) **Oil Cooler**
- F2853722 5 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 3
- F2831317 x1 3



1) **Water Pump**
- F2854835 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 3

Injector
- F2855135 x4 3
- F2855491 x4 3

Repair Sleeve
- F2995665 x4

(1): Kit includes does not include the oil pan gasket; please order it separately.
(2): Set contains Head Gasket, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(3): Verify Application.
(4): Included in Overhaul Gasket Kit
(5): Gasket only for Oil Pump F2830913

FPT IVECO NEF – N45 PISTON #8097879

Engine Series:
N45

Engine Model:
F4DF , F4HE & F4HF

Engine Desc:
TURBOCHARGE

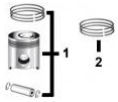
Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 274.607 in3 /4.5 Lt

Please see page **668** for a complete list of equipment models.

Basic Kit
- FOK7879/4 Std. — 1
- FOK7880/4 0.40 — 1



1) **Piston & Ring Kit**
- F8097879 Std.
- F8097880 0.40mm

2) **Ring Set**
- F8094845 Std.
- F8094752 0.40mm

4 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 4 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

Use 4 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833

1) **O/H Gasket Set**
- F8093914 — 2

3) **Head Gasket**
- F2830706 1.25mm Thick

4) **Valve Cover Gasket**
- F4899228 x1 Upper
- F4899230 x1 Lower

5) **Oil Pan Gasket**
- F2852012 Paper — 3
- F4897877 Rubber — 3
- F4894295 Metal — 3
- F2830645 Metal — 3

6) **Exhaust Manifold Gasket**
- F2830444 x4

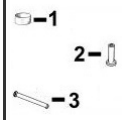
7) **Intake Manifold Gasket**
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x4

2) **Connecting Rod**
- F2831298 x4

3) **Connecting Rod Bolt**
- F2831297 x8

4) **Head Bolts**
- 4891024 x8
- 4891025 x10



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4899803 x16

3) **Pushrod**
- F4895031 x16

Valve Train

Valve, Intake
- F4895052 x8

Valve, Exhaust
- F4895051 x8

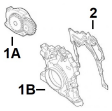
Insert, Valve Intake
- F4897578 x8

Insert, Valve Exhaust
- F4897106 x8

Spring, Valve
- F4895073 x16

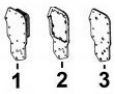
Lock, Valve
- F4899081 x32

Seal, Valve Stem
- F2831287 x16



1) **Oil Pump**
- A) F4897480 x1 — 3
- B) F2830913 x1 — 3

2) **Gasket Oil Pump**
- F2830972 x1 — 5



1) **Oil Cooler**
- F2853722 5 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 — 3
- F2831317 x1 — 3

1) **Water Pump**
- F2854835 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 — 3

Injector
- F2855135 x4 — 3
- F2855491 x4 — 3

Repair Sleeve
- F2995665 x4

(1): Kit includes does not include the oil pan gasket; please order it separately.
(2): Set contains Head Gasket, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(3): Verify Application.
(4): Included in Overhaul Gasket Kit
(5): Gasket Only for Oil pump F2830913

FPT IVECO NEF – N67 PISTON #87317238

Engine Series:
N67

Engine Model:
F4CE & F4GE

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Tier 2 – 2 Valves per Cylinder

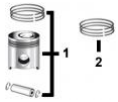
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 408.859 in3 /6.7 Lt

ENGINE TYPE
F4GE0604AD602
F4GE0604AB601
F4GE0604AD601
F4GE0604AD650
F4GE0604AD651
F4GE0606AE601

Basic Kit
- FOK7238/6 Std. 1
- FOK7243/6 0.40 1
- FOK7249/6 0.80 1

Inframe Kit
- FIK7238/6 Std. 1
- FIK7243/6 0.40 1
- FIK7249/6 0.80 1



1) **Piston & Ring Kit**
- F87317238 Std.
- F87317243 0.40mm
- F87317249 0.80mm

2) **Ring Set**
- F87316211 Std.
- F87316213 0.40mm
- F87316214 0.80mm

6 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 6 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

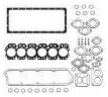
Use 6 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- FN67OHK 1

2) **Top Gasket Set**
- FN67IFK 2

3) **Head Gasket**
- F2830923 1.15mm Thick
- F2830922 1.25mm Thick

4) **Valve Cover Gasket**
- F2852033 x6

5) **Oil Pan Gasket**
- F4934344 Rubber
- F4894301 Metal

6) **Exhaust Manifold Gasket**
- F2852743 x6

7) **Intake Manifold Gasket**
- F4899921 x2

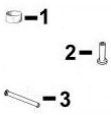
8) **Injection Pump Gasket**
- F2852885 x1

1) **Bush, Con Rod**
- F4892708 x6

2) **Connecting Rod**
- F2831298 x6

3) **Connecting Rod Bolt**
- F2831297 x12

4) **Head Bolts**
- F4892861
- F4892859



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4895180 x12

3) **Pushrod**
- F4895361 x12

Valve Train

Valve, Intake
- F4895187 x6

Valve, Exhaust
- F3802356 x6

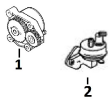
Valve, Insert Intake
- F4897178 x6

Valve, Insert Exhaust
- F4897179 x6

Spring, Valve
- F4895215 x12

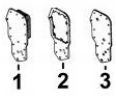
Lock, Valve
- F4895183 x24

Valve Stem Seal
- F4895347 x12



1) **Oil Pump**
- F4897481

2) **Fuel Transfer Pump**
- F2830266



1) **Oil Cooler**
- F2853604 7 plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 3

Repair Sleeve
- F2995665 x6

(1): The kit includes Head Gasket (F2830923) – 1.15mm thick. It does not include the Oil Pan Gasket nor Valve Steam Seals; please order these separately.
(3): Verify Application.

(2): Set contains Head Gasket F2830923 – 1.15mm Thick, Front and Rear Crankshaft Seal. Valve Steam Seals are not included.

(3): Check application for proper usage.

FPT IVECO NEF – N67 PISTON #8094740

Engine Series:
N67

Engine Model:
F4CE & F4GE

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 2 – 2 Valves per Cylinder

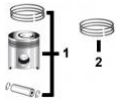
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 408.859 in3 /6.7 Lt

Please see page **669** for a complete list of equipment models.

Basic Kit
- FOK4740/6 Std. — 1
- FOK7252/6 0.40 — 1
- FOK7253/6 0.80 — 1

Inframe Kit
- FIK4740/6 Std. — 1
- FIK7252/6 0.40 — 1
- FIK7253/6 0.80 — 1



1) **Piston & Ring Kit**
- F8094740 Std.
- F87317252 0.40mm
- F87317253 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

6 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 6 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

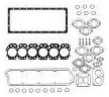
Use 6 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set**
- FN67OHK — 1

2) **Top Gasket Set**
- FN67IFK — 2

3) **Head Gasket**
- F2830923 1.15mm Thick
- F2830922 1.25mm Thick

4) **Valve Cover Gasket**
- F2852033 x6

5) **Oil Pan Gasket**
- F4934344 Rubber
- F4894301 Metal

6) **Exhaust Manifold Gasket**
- F2852743 x6

7) **Intake Manifold Gasket**
- F4899921 x2

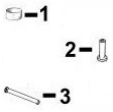
8) **Injection Pump Gasket**
- F2852885 x1

1) **Bush, Con Rod**
- F4892708 x6

2) **Connecting Rod**
- F2831298 x6

3) **Connecting Rod Bolt**
- F2831297 x12

4) **Head Bolts**
- F4892861
- F4892859



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4895180 x12

3) **Pushrod**
- F4895361 x12

Valve Train

Valve, Intake
- F4895187 x6

Valve, Exhaust
- F3802356 x6

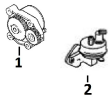
Valve, Insert Intake
- F4897178 x6

Valve, Insert Exhaust
- F4897179 x6

Spring, Valve
- F4895215 x12

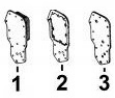
Lock, Valve
- F4895183 x24

Valve Stem Seal
- F4895347 x12



1) **Oil Pump**
- F4897481

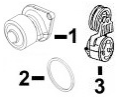
2) **Fuel Transfer Pump**
- F2830266



1) **Oil Cooler**
- F2853604 7 Plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1



1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 — 3

Injector
- F2855399 x4 — 3

Repair Sleeve
- F2995665 x6

(1): The kit includes Head Gasket (F2830923) – 1.15mm thick. It does not include the Oil Pan Gasket nor Valve Steam Seals; please order these separately.
(3): Verify Application.

(2): Set contains Head Gasket F2830923 – 1.15mm Thick, Front and Rear Crankshaft Seal. Valve Steam Seals are not included.

(3): Check application for proper usage.

FPT IVECO NEF – N67 PISTON #8097543

Engine Series:
N67

Engine Model:
F4DE & F4HE

Engine Desc:
TURBOCHARGE

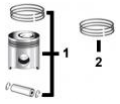
Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 408.859 in3 /6.7 Lt

New Holland - Tractor
T6070
T6080

Basic Kit
- FOK7543/6 Std. — 1
- FOK7544/6 0.40 — 1
- FOK7545/6 0.80 — 1



1) **Piston & Ring Kit**
- F8097543 Std.
- F8097544 0.40mm
- F8097545 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

6 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 6 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

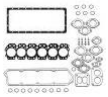
Use 6 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set** — 2
- F2995642

2) **Head Gasket**
- F2830705 1.15mm Thick
- F2830704 1.25mm Thick

3) **Valve Cover Gasket**
- F4899231 x1, Lower
- F2853784 x1, Upper

4) **Oil Pan Gasket**
- F4934344 Rubber
- F4894301 Metal

5) **Exhaust Manifold Gasket**
- F2830444 x6

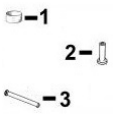
6) **Intake Manifold Gasket**
- F4899921 x1
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x6

2) **Connecting Rod**
- F2831298 x6

3) **Connecting Rod Bolt**
- F2831297 x12

4) **Head Bolts**
- F4891024 x12
- F4891025 x14



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4891226 x24

3) **Pushrod**
- F4895031 x24

Valve Train

Valve, Intake
- F4895052 x12

Valve, Exhaust
- F4895051 x12

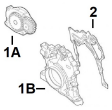
Insert, Valve Intake
- F4897578 x12

Insert, Valve Exhaust
- F4897106 x12

Spring, Valve
- F4895073 x24

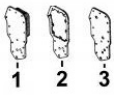
Lock, Valve
- F4899081 x48

Seal, Valve Stem
- F2831287 x24



1) **Oil Pump**
- A) F4897481 x1 — 3
- B) F2830914 x1 — 3

2) **Gasket Oil Pump**
- F2830972 x1 — 5



1) **Oil Cooler**
- F2853604 7 plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 — 3
- F2831317 x1 — 3

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 — 3

Injector
- F2855135 x4 — 3
- F2855491 x4 — 3

Repair Sleeve
- F2995665 x6

(1): Kit includes does not include the oil pan gasket; please order it separately.
(3): Verify Application.
(5): Gasket only for Oil Pump F2830914

(2): Set contains Head Gasket 1.25mm Thick, Valve Stem Seals, Front and Rear Crankshaft Seals.Does not include Oil Pan Gasket.
(4): Check application for proper usage.

Engine Series:
N67

Engine Model:
F4DE & F4HE

Engine Desc:
TURBOCHARGE

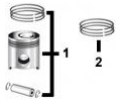
Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 408.859 in3 /6.7 Lt

Please see page **670** for a complete list of equipment models.

Basic Kit
- FOK4846/6 Std. — 1
- FOK4848/6 0.40 — 1
- FOK2047/6 0.80 — 1



1) **Piston & Ring Kit**
- F8094846 Std.
- F8094848 0.40mm
- F87582047 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

6 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 6 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

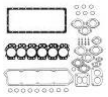
Use 6 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set** — 2
- F2995642

2) **Head Gasket**
- F2830705 1.15mm Thick
- F2830704 1.25mm Thick

3) **Valve Cover Gasket**
- F4899231 x1, Lower
- F2853784 x1, Upper

4) **Oil Pan Gasket**
- F4934344 Rubber
- F4894301 Metal

5) **Exhaust Manifold Gasket**
- F2830444 x6

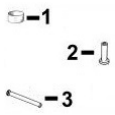
6) **Intake Manifold Gasket**
- F4899921 x1
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x6

2) **Connecting Rod**
- F2831298 x6

3) **Connecting Rod Bolt**
- F2831297 x12

4) **Head Bolts**
- F4891024 x12
- F4891025 x14



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4891226 x24

3) **Pushrod**
- F4895031 x24

Valve Train

Valve, Intake
- F4895052 x12

Valve, Exhaust
- F4895051 x12

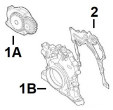
Insert, Valve Intake
- F4897578 x12

Insert, Valve Exhaust
- F4897106 x12

Spring, Valve
- F4895073 x24

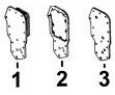
Lock, Valve
- F4899081 x48

Seal, Valve Stem
- F2831287 x24



1) **Oil Pump**
- A) F4897481 x1 — 3
- B) F2830914 x1 — 3

2) **Gasket Oil Pump**
- F2830972 x1 — 5



1) **Oil Cooler**
- F2853604 7 plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 — 3
- F2831317 x1 — 3

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 — 3

Injector
- F2855135 x4 — 3
- F2855491 x4 — 3

Repair Sleeve
- F2995665 x6

(1): Kit includes does not include the oil pan gasket; please order it separately.
(3): Verify Application.
(5): Gasket only for Oil Pump F2830914

(2): Set contains Head Gasket 1.25mm Thick, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(4): Check application for proper usage.

FPT IVECO NEF – N67 PISTON #87317256

Engine Series:
N67

Engine Model:
F4DE & F4HE

Engine Desc:
TURBOCHARGE

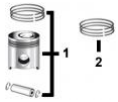
Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm _ Stroke: 5.196in / 132.00mm Displacement: 408.859 in3 /6.7 Lt

Please see page **671** for a complete list of equipment models.

Basic Kit
- FOK7256/6 Std. 1
- FOK7257/6 0.40 1
- FOK7258/6 0.80 1



1) **Piston & Ring Kit**
- F87317256 Std.
- F87317257 0.40mm
- F87317258 0.80mm

2) **Ring Set**
- F8094845 Std.
- F87316944 0.40mm
- F87316959 0.80mm

6 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 6 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

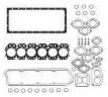
Use 6 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833



1) **O/H Gasket Set** 2
- F2995642

2) **Head Gasket**
- F2830705 1.15mm Thick
- F2830704 1.25mm Thick

3) **Valve Cover Gasket**
- F4899231 x1, Lower
- F2853784 x1, Upper

4) **Oil Pan Gasket**
- F4934344 Rubber
- F4894301 Metal

5) **Exhaust Manifold Gasket**
- F2830444 x6

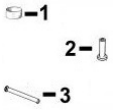
6) **Intake Manifold Gasket**
- F4899921 x1
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x6

2) **Connecting Rod**
- F2831298 x6

3) **Connecting Rod Bolt**
- F2831297 x12

4) **Head Bolts**
- F4891024 x12
- F4891025 x14



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4891226 x24

3) **Pushrod**
- F4895031 x24

Valve Train

Valve, Intake
- F4895052 x12

Valve, Exhaust
- F4895051 x12

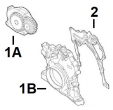
Insert, Valve Intake
- F4897578 x12

Insert, Valve Exhaust
- F4897106 x12

Spring, Valve
- F4895073 x24

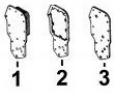
Lock, Valve
- F4899081 x48

Seal, Valve Stem
- F2831287 x24



2) **Oil Pump**
- A) F4897481 x1 3
- B) F2830914 x1 3

2) **Gasket Oil Pump**
- F2830972 x1 5



1) **Oil Cooler**
- F2853604 7 plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 3
- F2831317 x1 3

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 3

Injector
- F2855135 x4 3
- F2855491 x4 3

Repair Sleeve
- F2995665 x6

(1): Kit includes does not include the oil pan gasket; please order it separately.
(3): Verify Application.

(5): Gasket Only for Oil Pump F2830914

(2): Set contains Head Gasket 1.25mm Thick, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(4): Check application for proper usage.

FPT IVECO NEF – N67 PISTON #8097879

Engine Series:
N67

Engine Model:
F4DF , F4HE & F4HF

Engine Desc:
TURBOCHARGE

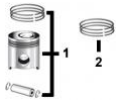
Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.095in / 104.00mm
Stroke: 5.196in / 132.00mm
Displacement: 408.859 in3 /6.7 Lt

Please see page **672** for a complete list of equipment models.

Basic Kit
- FOK7879/6 Std. [1]
- FOK7880/6 0.40 [1]



1) **Piston & Ring Kit**
- F8097879 Std.
- F8097880 0.40mm

2) **Ring Set**
- F8094845 Std.
- F8094752 0.40mm

6 Per Engine

Main Bearing
- F2995787 Std
- F2995788 .254mm
- F2995789 .508mm

Use 6 Pairs per engine

Con Rod Bearing
- F8093882 Std.
- F8094960 .254mm
- F8094961 .508mm

Use 6 Pairs per engine

Thrust Bearing
- F2995784 Std.
- F2995785 .254mm
- F2995786 .508mm

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F4890832

2) **Rear Crankshaft Seal**
- F4890833

1) **O/H Gasket Set**
- F2995642 [2]

2) **Head Gasket**
- F2830705 1.15mm Thick
- F2830704 1.25mm Thick

3) **Valve Cover Gasket**
- F4899231 x1, Lower
- F2853784 x1, Upper

4) **Oil Pan Gasket**
- F4934344 Rubber
- F4894301 Metal

5) **Exhaust Manifold Gasket**
- F2830444 x6

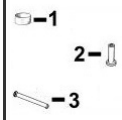
6) **Intake Manifold Gasket**
- F4899921 x1
- F2854701 x1

1) **Bush, Con Rod**
- F4892708 x6

2) **Connecting Rod**
- F2831298 x6

3) **Connecting Rod Bolt**
- F2831297 x12

4) **Head Bolts**
- F4891024 x12
- F4891025 x14



1) **Bushing Camshaft**
- F4895040 x1

2) **Tappet**
- F4891226 x24

3) **Pushrod**
- F4895031 x24

Valve Train

Valve, Intake
- F4895052 x12

Valve, Exhaust
- F4895051 x12

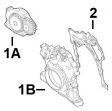
Insert, Valve Intake
- F4897578 x12

Insert, Valve Exhaust
- F4897106 x12

Spring, Valve
- F4895073 x24

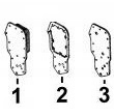
Lock, Valve
- F4899081 x48

Seal, Valve Stem
- F2831287 x24



1) **Oil Pump**
- A) F4897481 x1 [3]
- B) F2830914 x1 [3]

2) **Gasket Oil Pump**
- F2830972 x1 [5]



1) **Oil Cooler**
- F2853604 7 plates

2) **Oil Cooler Gasket**
- F2830559 x1

3) **Oil Cooler Gasket**
- F4896409 x1 [3]
- F2831317 x1 [3]

1) **Water Pump**
- F2852114 x1

2) **Water Pump Seal ring**
- F2852047 x1

3) **Belt Tensioner**
- F2855622 x1 [3]

Injector
- F2855135 x4 [3]
- F2855491 x4 [3]

Repair Sleeve
- F2995665 x6

(1): Kit includes does not include the oil pan gasket; please order it separately.
(2): Set contains Head Gasket 1.25mm Thick, Valve Stem Seals, Front and Rear Crankshaft Seals. Does not include Oil Pan Gasket.
(3): Verify Application.
(4): Check application for proper usage.
(5): Gasket only for Oil Pump F2830914

FPT IVECO – CURSOR 9 – PISTON #500055469

Engine Series:
CURSOR 9

Engine Model:
F2CC, F2CF & F2CG

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 4 – 4 Valves per Cylinder

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.606in / 117.00mm
Stroke: 5.314in / 135.00mm
Displacement: 530.907 in3 / 8.7 Lt

Please see page **673** for a complete list of equipment models.

Basic Kit
- FOK5472 Std.

1) **Piston-Liner-Kit**
- F500055472 Std.

Consists of:
- a) F500055469
- b) F500055470
- c) F504126580
- d) F504305866
- e) F99459175/6
- f) F16873476

6 Per Engine

Main Bearing
- F2996584 Std
- F2996587 .127mm Green / Black Marking
- F2996588 .254mm Red Marking
- F2996589 .508mm Red Marking

Use 6 Pairs per engine

Con Rod Bearing
- F500054902 Std. Red Marking
- F500054906 .254mm Red Marking
- F500054908 .508mm Red Marking

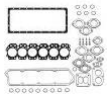
Use 6 Pairs per engine

Thrust Washer Set
- F2996590 Std.

Use 1 pair per engine

1) **Front Crankshaft Seal**
- F504042684 88 x 123 x 15mm

2) **Rear Crankshaft Seal**
- F504244493 130 x 160 x 13.5mm



1) **O/H Gasket Set** 1
- F8094890

2) **Head Gasket Set** 2
- F8094891

3) **Head Gasket**
- F504385500

4) **Valve Cover Gasket**
- F99446692 x1

5) **Oil Pan Gasket**
- F504346309 x1

6) **Exhaust Manifold Gasket**
- F504154202 x6

7) **Intake Manifold Gasket**
- F504375264 x1

1) **Bush, Con Rod**
- F504254668 x6

2) **Connecting Rod**
- F5801654901 x6

3) **Connecting Rod Bolt**
- F504126229 x12

4) **Head Bolts**
- F500354580 x26

Bushing Camshaft
- F504125778 x7

Valve Train

Valve, Intake
- F500354685 x12

Valve, Exhaust
- F5801506352 x12 - Seat at 30° 3
- F504368419 x12 - Seat at 45° 3

Guide, Valve Exhaust
- F504361838 x12

Guide, Valve Inlet
- F504361843 x12

Insert, Intake Valve
- F504361851 x12

Insert, Exhaust Valve
- F504362736 x12 - Seat at 30° 3

Spring, Valve
- F504125776 x24

Lock, Valve
- F98499819 x48

Seal, Valve Stem
- F5801663519 x24

Oil Pump
- F5801608329

Oil Cooler
- F504127469

1) **Water Pump**
- F504361543

2) **Water Pump Seal ring**
- F17291781

Thermostat
- F504096443 x1

Turbocharger
- F5801621763

(1): Set contains Valve Stem Seals, Oil Pan Gasket, Front and Rear Crankshaft Seals.
(2): Set contains Valve Stem Seals
(3): Check application for proper usage.

JOHN DEERE 4.219 LARGE PIN, O'RINGS ON BLOCK

EQUIPMENT MODELS

Cotton Pickers

499

Windrowers

2270 2280 2320

Backhoe Loaders

310 310B 401B 401C 401D 410
410B

Forklifts

480B 480C

Farm Tractors

1035 1130 1635 2030 2035 2120
2440 2530

Combines

3300

Crawler Dozers

450C 450D 455D

Skidders

440B

Excavators

490

JOHN DEERE 4.239D

EQUIPMENT MODELS

Combines

940 942 6602

Windrowers

2360 3430

Backhoe Loaders

210C 310C 310D 315C 415B 415C
515B

Farm Tractors

1640 1840 2130 2135 2250 2350
2355 2355CS 2450 2535 2550 2555CS
2650 2730 2735 3330

Excavators

70 70D 290D

Wheel Loaders

244E

Crawler Dozers

400G

JOHN DEERE 4.239T

EQUIPMENT MODELS

Combines

945	952	1052	1155

Windrowers

3430	3830

Farm Tractors

2140	2450	2555	2555TSS	2650	2750
2755	2755CS	2755TSS	2850	2855	2855N

Backhoe Loaders

310C	310D	315C	315D	515B

JOHN DEERE 4045D LITER DESIGNATED

EQUIPMENT MODELS

Farm Tractors

6100 SE6100

Backhoe Loaders

410C 410D 510B

Crawler Dozers

450E 450G 455E

Skidders

340D 440C

Wheel Loaders

344E

Renault Tractors

Ares 550 RX Ares 550 RZ Ceres 330 Ceres 330X Ceres 340 Ceres 340X Ceres 355

Excavators

490D 493D

Skid Steers

270 270 Series II

JOHN DEERE 4.276T

EQUIPMENT MODELS

Backhoe Loaders

410C 410D 510C 610C

Crawler Dozers

450E 450G 455E 455G 550A 550B
550G 555A 555B 555G 650G 550
555

Wheel Loaders

444E 444G 344G

Excavators

490E 495D 590D 595D 595

Skidders

340D 440C 448D 540B 540D 548D

JOHN DEERE 4045T LITER DESIGNATED

EQUIPMENT MODELS

Farm Tractors

6400	6400L	6500	6500L	SE6400	

Sprayers

6700

Crawler Dozers

450E	450G	455E	455G	550	550A
550B	550G	555	555A	555B	555G
650G					

Skidders

340D	440C	448D	540D	548D

Engine Model

4045DF001	4045TT006	4045TT007	4045TT013	4045TT015

Renault Tractors

Ares 550 RX	Ares 550 RZ	Ceres 330 Ceres 355	Ceres 330X Ares 550 RX	Ceres 340 Ares 550 RZ	Ceres 340X

Backhoe Loaders

410C	410D	510C	510D	610B	610C

Excavators

490E	495D	590D	595D

Wheel Loaders

344G	444E	444G

Skid Steers

280	280 Series II

JOHN DEERE 6.359D

EQUIPMENT MODELS

Combines

955 975 985 1055 1075

Farm Tractors

2940 2950 2955 3040 3050 3140
3150 3155 3155TSS 3255 3350 3640
4420 4530

Cotton Pickers

7440 7445 9900 9910 9920

Wheel Loaders

444D

Motor Graders

570B

JOHN DEERE 6.414T

EQUIPMENT MODELS

Crawler Dozers

655A 655B 750B 755 755A 755B 755BMIL

Motor Graders

670A 670B 672A 672B

Wheel Loaders

544B 544C 544D 624E 624EH 624G

Excavators

690D 690E 790E

Feller Bunchers Log Loarders

643 643D 693D

Skidders

640 640D 648D

JOHN DEERE 6068T LITER DESIGNATED

EQUIPMENT MODELS

Combines

9400

Forage Cane Harvesters

7500

Excavators

690D 690E 790E

Motor Graders

670A 670B 672A 672B

Wheel Loaders

544B 544C 544D 624E 624EH 624G

Engine Model

6068TDW10 6068TP052 6068TRW01 6068TT005 6068TT007 6068HH001
6068TDW02 6068TF001 6068TRW02 6068TT002 6068TJ01 6068TDW06

Renault Tractors

Ares 630 RX Ares 630 RZ Ares 640 RZ Ares 710 RZ Ares 720 RZ Ares 735 RZ
Ares 815 RZ Ares 825 RZ

Crawler Dozers

655A 655B 750 750B 755 755A
755B 755BMIL

Feller Bunchers Log Loarders

643 643D 653 693D

Skidders

640D 648D 648E

Farm Tractors

6800 6900 7400 7410 7600

JOHN DEERE 6.466A/T CON ROD (M) R71074

EQUIPMENT MODELS

Combines

6602 6620 7720

Farm Tractors

4250 4440 4450 4640 4650 5460 6622

Excavators

690C 790D 892D

Scrapers

762A 762B

Cotton Pickers

9940 9950

Forage Cane Harvesters

5720 5730

Crawler Dozers

850B

Motor Graders

770A 770B

Wheel Loaders

644C

JOHN DEERE 6076 T/A/H HIGH RING PISTON

EQUIPMENT MODELS

Combines

1185 2066 9500 9600 9965

Farm Tractors

4055 4255 4455 4555 4560 4755
4760 7700 7800 8100 8200 8300

Motor Graders

770B 770BH 772B 772BH

Wheel Loaders

644E 644ER 644G 644GH

Cotton Pickers

9960

Crawler Dozers

850C

Excavators

792D 792LC

Skidders

740E 740G 748E 748G

Engine Model

6076AFM30 6076TRW30 6076TRW08

JOHN DEERE 3TNV84 84MM BORE NON TURBO & TURBO

EQUIPMENT MODELS

Utility Tractors

3036E 3038E 3120 3203 3520 3720
4105 3045R 3605

Fairway Mowers

3225C 3235C

Mowers

7400 7500 7700 8000 8400 8500
8700 8800

Rotary Deck Mowers

3245C

JOHN DEERE 3029 2.9D PISTON (M) RE61467

EQUIPMENT MODELS

Farm Tractors

3100 5105 5200 5205 5210 5220
5300 5310 5310N

Skidders

240

Sdmo Generator

J22 J20U J33 J30U

Engine Model

3029DF129 3029DAT01 3029DAT50 3029DF120 3029DF124 3029DF150
3029DF151 3029DF180 3029DFG20 3029DKV50 3029DKV51 3029DKV54
3029DKV55 3029DPY07 3029TF129 3029TF100 (FROM ESN 43,681) 3029TF120
(FROM ESN 140,914) 3029TF150 (FROM ESN 140,914) 3029TF270 (FROM ESN 140,914) 3029TFG20
3029TFG80 3029TFG89 3029TFU20 3029TFU29 3029TFU80 3029TFU89
3029DFS29 3029TFS29

Aksa

APD-EPAJ30 APD-EPAJ40 APD-ULJ30 APD-ULJ40

Oem

2.9L

Genmac

Alpha G30JO Strong G30JS

JOHN DEERE 3029 2.9D/T PISTON (M) RE520573

EQUIPMENT MODELS

Farm Tractors

5103	5203	5303	5310	5403	5410
5503	5610	5036C	5038D	5039C	5039D
5041C	5042C	5042D	5045D	5045E	5047D
5050D	5050E	5055D	5055E	5060E	5065E
5075E	5075EF	5075M			

Genmac

ALPHA	STRONG
G40JO	G40JS

Combine

R40	R40 PLUS

Engine Model

3029TPY04	3029TPY11	3029TPY21	3029TPY211	3029TPY22	3029TPY24
3029TPY25	3029TPY26	3029TPY27	3029TPY28	3029TPY29	3029TPY30
3029TPY33	3029TPY35	3029TPY38	3029TPY39	3029TPY40	3029TPY41
3029TPY42	3029TPY43	3029TPY44	3029TPY45	3029TPY46	3029TPY48
3029TPY49	3029TPY50	3029TPY61			

JOHN DEERE 3029 2.9T PISTON (M) RE500211

EQUIPMENT MODELS

Farm Tractors

5400 5400N

Sdmo Generator

J44K J40U R45U

Engine Model

2.9L	3029TAT70	3029TAT71	3029TF100	(TO ESN 43,680)	3029TF120 (TO ESN 140,913)
3029TF150	(TO ESN 140,913)	3029TF152	3029TF160	3029TF270	(TO ESN 140,913)
3029TKV50	3029TKV51	3029TKV52	3029TKV53	3029TAT02	3029TAT50
3029TLV52					

Skidders

8875

Sdmo-Generator

J40U J44K R45U

JOHN DEERE 4045 4.5T/H PISTON (M) RE55512/RE505102

EQUIPMENT MODELS

Farm Tractors

6010 6110 6110L 6210 6210L 6310
6310L 6310S 6405 6410 6410L 6410S
6510L 6610S 6605 6610

Wheel Loaders

444H 444HCL TC444H

Sdmo Generator

J88K J80U J110K R66RC R90RC R90U
R110RC R110U

Backhoe Loaders

120

Forwarders

1010D 1010E 810D 810E

Crawler Dozers

450G 455G 550G 550H 555G 650G

J100U R70U

Skid Steers

280 280 Series II

Engine Model

4045HBM01 4045TFM75 4045TL051 4045HDW52 4045TL052 4045HF120
4045TL053 4045HF150 4045TL054 4045HF157 4045TL055 4045HF158
4045TL056 4045HF275 4045TL057 4045HL070 4045TL058 4045HL071
4045TL059 4045HL072 4045TL060 4045HL073 4045TL061 4045HL270
4045TL062 4045HL271 4045TL063 4045HL272 4045TL064 4045HL273
4045TL070 4045HLA70 4045TL071 4045HLA72 4045TL072 4045HLA73
4045TL073 4045HP050 4045TL270 4045HP051 4045TL271 4045HP053
4045TL272 4045HTJ76 4045TL273 4045HTJ77 4045TL274 4045HZ050
4045TLA50 4045HZ275 4045TLA51 4045TCQ01 4045TP057 4045TCQ03
4045TP060 4045TDW50 4045TP061 4045TF157 4045TP070 4045TF158
4045TP071 4045TF220 4045TT052 4045TF250 4045TT054 4045TF254
4045TT055 4045TF258 4045TT061 4045TF275 4045TT062 4045TF276
4045TT063 4045TF278 4045TT067 4045TFM50 4045TT069 4045TFM75
4045TZ250 4045TL050 4045TF252 4045TSG20

Sdmo-Generator

J80U R90U J88K R110U J100U R66RC
J110K R90RC R70U R110RC

JOHN DEERE 4045 4.5T/H PISTON (M) RE527039 TIER 2 & TIER 3

EQUIPMENT MODELS

Farm Tractors

6130 6230 6325 6330 6425 6430
6534 5080R 5080RN 5090R 5090RN 5100R
5100RN 5105M 5105ML 6100D 6110D 6115D
6125D 6130D 6140D

Loaders

344J

Backhoe Loaders

310J 710J

Skid Steers

280 280 Series II

Sdmo Generator

R90C3 R110C3

Excavator

160DLC

Knuckleboom Log Loaders

335D 437D

Crawlers

650J

Telehandlers

ML1335

Hi Power Genset

HJW85T6 HJW105T6 HJW130T6 HRJW75T6 HRJW90T6 HRJW115T6 HRJW145T6

Engine Model

4045HCP05 4045HL288 4045HCP07 4045HLV50 4045HCP11 4045HP052
4045HCP28 4045HT054 4045HDW53 4045HT056 4045HDW54 4045HT059
4045HE050 4045HT061 4045HE051 4045HT064 4045HF285 4045HT065
4045HF285H 4045HT067 4045HF285I 4045HT072 4045HF287 4045HT074
4045HL280 4045HT075 4045HL281 4045HT086 4045HL282 4045HT087
4045HL283 4045HT281 4045HL284 4045HXU01 4045HL287 4045TF285
4045TFM85 4045TF255

Aksa-Gensets

APD-AGJ80 APD-AGJ100 APD-AGJ125 APD-AT80 APD-AT100 APD-EPAJ80
APD-EPAJ100 APD-EPAJ125 APD-ULJ80 APD-ULJ100 APD-ULJ125

JOHN DEERE 4045 4.5T/H PISTON (M) RE521616 TIER 2 & TIER 3

EQUIPMENT MODELS

Farm Tractors

6430 6534 7130

Forwarders

1010D 1010E 810D 810E

Crawler Dozers

450G 455G 550G 550H 555G 650G

Engine Model

4045AFM85 4045HTJ86 4045HF485 4045HTJ87 4045HL481 4045HXU04 4045HRW50 4045HXU05 4045HTJ85

Loader Backhoes

120

Wheel Loaders

444HCL TC444H

Skid Steers

280 280 Series II

Excavators

E210 E230LC

JOHN DEERE 4045 4.5T/H PISTON (M) RE515037 TIER 2 & TIER 3

EQUIPMENT MODELS

Farm Tractors

6430 6534 7130

Forwarders

1010D 1010E 810D 810E

Wheel Loaders

444HCL TC444H

Skid Steers

280 280 Series II

Loader Backhoes

120

Wheel Loader

444H

Crawler Dozers

450G 455G 550G 550H 555G 650G

Engine Model

4045HL472 4045HL475 4045HL473 4045HL476 4045HL474

JOHN DEERE 4045 4.5T/H PISTON (M) RE515037 TIER 2 & TIER 3 (2)

EQUIPMENT MODELS

Backhoe Loaders

310K	310L	310SK	310SL		

Forwarders

1010D	1010E	810D	810E

Crawler Dozers

450G	455G	550G	550H	555G	650G

Engine Model

4045HBZ02	4045HL482	4045HL480	4045HT085

Farm Tractor

6230 PREM.	6330 PREM.	6430 PREM.

Wheel Loaders

444HCL	TC444H

Skid Steers

280	280 Series II

JOHN DEERE 4045 4.5T/H PISTON (M) RE545770 TIER 2 & TIER 3

EQUIPMENT MODELS

Tractor

6110B 6115J 6120B 6125E 6125J 6135B
6B-1204 6B-1354 6B-954 6E-1404

Corn Picker

Y110 Y115 Y210 Y215

Sprayer

120J

Combine

C100 C110 C110+ C120 W80 W100
W210

Excator

E130 E140 E140LC

Engine Model

4045HBM02 4045HCP05 4045HCP06 4045HCP10 4045HCP11 4045HCP20
4045HCP23 4045HCP25 4045HCP26 4045HCP27 4045HCP28 4045HCP29
4045HCY10 4045HFG82 4045HFS88 4045HFU82 4045HXU01 4045HXU09
4045HYC04 4045HYC06 4045HYC07 4045HYC08 4045HYC11 4045HYC12
4045HYC15 4045HYF01

JOHN DEERE 4045D 4.5D PISTON (M) RE59279/RE505101

EQUIPMENT MODELS

Farm Tractors

5410	5415	5420	5420N	5510	5615
5715	6010	6110	6610		

Forklifts

485E	486E	488E

Engine Model

4045DF120	4045DFM70	4045DT050	4045DF150	4045DT055	4045DF158
4045DT056	4045DF270	4045DT058	4045DFM50	4045DT059	4045DJ01
4045DT060	4045DLV51	4045TKV50	4045DF159		

Backhoe Loaders

210LE	310E

Crawler Dozers

450H	550H	650H

Skid Steers

270	270 Series II	280

Genmac

BETA G60JO	BETA G85JO	GAMMA G105JO	KING G60JS*	KING G85JS*	QUEEN G125JS*

Wacker

G50	Generator

JOHN DEERE 4045T 4.5T PISTON (M) RE59277/RE505100

EQUIPMENT MODELS

Farm Tractors

3410	4890	5415	5425	5510	5520
5525	5615	5625	5715	5725	3410X
5425N	5510N	5520N	5525N	5625N	

Windrowers

4895

Sprayers

6700

Excavators

230LCR

Backhoe Loaders

310E	310G	310J	310SE	310SG	315SE
315SG	410E	410G	410J		

Wheel Loaders

344H

Crawler Dozers

450H	550H	650H

Skid Steers

280	280 Series II

Sdmo Generator

J66K	J60U	J77K	J70U

Engine Model

4045DF120	4045TP073	4045DF150	4045TP074	4045DF158	4045TP075
4045DF270	4045TP076	4045DFM50	4045TP077	4045DJ01	4045TP078
4045DLV51	4045TP079	4045DT050	4045TP080	4045DT055	4045TP081
4045DT056	4045TRT50	4045DT058	4045TT050	4045DT059	4045TT053
4045DT060	4045TT056	4045HT050	4045TT057	4045HT051	4045TT058
4045TAT50	4045TT064	4045TAT70	4045TT065	4045TAT71	4045TT066
4045TCQ02	4045TT070	4045TE050	4045TT080	4045TE051	4045TT081
4045TF120	4045TT082	4045TF150	4045TT083	4045TF151	4045TT084
4045TF152	4045TT085	4045TF158	4045TT086	4045TF270	4045TT087
4045TF273	4045TT088	4045TF275	4045TT089	4045TLV50	4045TT090
4045TLV51	4045TT091	4045TLV52	4045TT092	4045TLV53	4045TT093
4045TLV54	4045TT094	4045TLV56	4045TT095	4045TN050	4045TT096
4045TP059	4045TT851	4045TP066	4045TT852	4045TP072	

Aksa-Gensets

APD-AGJ60	APD-AT65	APD-EPAJ65	APD-ULJ65	

Sdmo-Generator

J60U	J66K	J70U	J77K

JOHN DEERE 4045 4.5T/H PISTON (M) RE544601 INTERIM TIER 4

EQUIPMENT MODELS

Farm Tractor

6105M 6105R 6115M 6115R 6125M 6125R
6130D iT4 6130M 6130R 6140D iT4 6140M

Crawler Loader

605K

Excavator

160GLC 180GLC

Loader

444K

Engine Model

4045HDW56 4045HDW58 4045HFC93 4045HFC95 4045HFG93 4045HFL93
4045HL495 4045HL496 4045HL497 4045HP057 4045HT068 4045HT069

JOHN DEERE 4045 4.5T/H PISTON (M) RE544607 INTERIM TIER 4

EQUIPMENT MODELS

Farm Tractor

5085E	5085M	5090M	5090R	5100E	5100M
5100MH	5100ML	5100R	5115M	5115ML	5115R
5125R	6090MC	6090RC	6100MC	6100RC	6110MC
6110RC	6105D iT4	6115D iT4	6130D iT4		

Excavator

130G

Tractor Loader

210K

Backhoe Loader

310SK 310K 410K

Loader

344K

Crawler Dozer

550K 650K

Engine Model

4045HFC92	4045HFG92	4045HFL92	4045HL490	4045HLV68	4045HLV69
4045HLV70	4045HLV74	4045HLV79	4045HMC85	4045HMC92	4045HP056
4045HT063	4045HT066	4045HT070	4045HT073		

JOHN DEERE 4045 4.5T/H PISTON (M) RE551101 TIER 4 FINAL

EQUIPMENT MODELS

Farm Tractor

6110M 6110R 6120M 6120R 6130M 6130R
6135M 6135R 6140M 6145M 6R 110 6R 120
6R 130

Self-Propelled Detasseler

204SP 332M

Backhoe Loader

710 P-tier

Windrower

W155

Excavator

160 P-tier 200 G-tier 200G

Forwarder

910G 1010G

Wheel Loader

444 P-tier 444K

Self-Propelled Sprayer

R4023

Engine Model

4045CA550 4045CB551 4045CG440 4045CI550 4045CI551 4045HAC09
4045HDW57 4045HDW60 4045HE052 4045HFA01 4045HFC09 4045HFG04
4045HFG06 4045HFG09 4045HFL09 4045HI551 4045HL500 4045HL503
4045HL504 4045HL506 4045HL536 4045HL555 4045HL556 4045HLC09
4045HN051 4045HN054 4045HN056 4045HT084 4045HT105 4045HTJ19
4045WG503

JOHN DEERE 4045 4.5T/H PISTON (M) RE570485 TIER 4 FINAL

EQUIPMENT MODELS

Farm Tractor

210L	5085E	5085M	5090E	5090EL	5090M
5090R	5100E	5100M	5100MH	5100ML	5100R
5115M	5115ML	5115R	5125M	5125ML	5125R
6105E	6120E				

Engine Model

4045HT082	4045HT096	4045HLV71	4045HLV72	4045HLV76	4045HLV78
4045HLV73	4045HLV75	4045HP073	4045HAC04	4045HAC05	4045HFG04
4045HFK04	4045HMC04	4045HMC05	4045HFC04		

Tractor Loader

210L	310L	310SL	315SL	410L

IBIS Self-Propelled Sprayer

2130	2530

JOHN DEERE 6068 6.8T/H PISTON (M) RE55512 / RE505102

EQUIPMENT MODELS

Sprayers

4700

Farm Tractors

6605, 6615, 6715, 7210, 7405, 7410
7510, 7610, 7505, 7515, 7520, 7715
7810, 7815, 4700, 9400, 4710, 4990
9450, 4995, 6125J, 6515, 6130J, 6145J
6610, 6165J, 6180J, 6620, 6910S, 6920S
6810, 7185J, 6820, 7205J, 6910, 9470STS
7220, SE6520, 7320, SE6620, SE6920, 7420
740, 330

Combines

9410, 1165, 1170, 1175, 1450, 1470
1550, 2254, 3518, 9540WTS, W210

Excavators

200LC, 200CLC, 230CLC, 230LCR, 270CLC, 270LC
360D, 460D, 690E

Wheel Loaders

544H, 544J, 624H, TC54H, TC62H

Motor Graders

670C, 670CH, 672CH

Backhoe Loaders

710D, 710G, 710J

Log Loader

2054, 624HLL, 2554, 335C, 430B, 435C
437C, 544HLL

Crawler Dozers

850G, 850J, 750C

Skidders

540G, 540GLL, 548G, 548GII, 548GIII, 640G
640GII, 640GIII, 648G, 648GII, 648GIII

Feller Bunchers

643G, 643H, 653E, 653G, 843H, 843G
648G

Engine Model

6068HBM02, 6068HBM03, 6068HBM04, 6068HCQ01, 6068HCQ04, 6068HCQ06
6068HCQ60, 6068HCQ61, 6068HDW50, 6068HDW53, 6068HDW55, 6068HDW56
6068HDW59, 6068HDW60, 6068HF120, 6068HF150, 6068HF157, 6068HF158
6068HF250, 6068HF252, 6068HF254, 6068HF258, 6068HF275, 6068HH050
6068HH051, 6068HH052, 6068HL270, 6068HL271, 6068HL272, 6068HLA70
6068HLA71, 6068HLA72, 6068HLA73, 6068HRT72, 6068HRW01, 6068HRW63
6068HRW71, 6068HT050, 6068HT051, 6068HT052, 6068HT053, 6068HT054
6068HT055, 6068HT056, 6068HT057, 6068HT059, 6068HYC53, 6068HZ050
6068HZ060, 6068SFM50, 6068TBM01, 6068TBM02, 6068TBM03, 6068TCQ01
6068TCQ02, 6068TCQ03, 6068TCQ11, 6068TCQ12, 6068TCQ13, 6068TCQ14
6068TCQ18, 6068TCQ50, 6068TDW50, 6068TDW51, 6068TDW52, 6068TDW54
6068TDW55, 6068TDW56, 6068TDW57, 6068TDW58, 6068TE050, 6068TE051
6068TF157, 6068TF158, 6068TF220, 6068TF250, 6068TF252, 6068TF258
6068TF275, 6068TFM50, 6068TFM75, 6068TFM76, 6068TJ07, 6068TJ11
6068TJ12, 6068TJ14, 6068TJ31, 6068TJ32, 6068TJ61, 6068TJ62
6068TL050, 6068TL051, 6068TL052, 6068TL053, 6068TL071, 6068TL072
6068TL074, 6068TLA50, 6068TLA51, 6068TLA52, 6068TLA53, 6068TN050
6068TN052, 6068TP051, 6068TP055, 6068TP056, 6068TP057, 6068TP058
6068TRW50, 6068TRW51, 6068TRW52, 6068TRW53, 6068TRW54, 6068TRW70
6068TRW73, 6068TT050, 6068TT051, 6068TT052, 6068TT053, 6068TT055
6068TT057, 6068TT058, 6068TT061, 6068TT852, 6068TTJ50, 6068TTJ51
6068TYC50, 6068TYC51, 6068TYC52, 6068TJ08, 6068TJ04, 6068HRW59
6068HRW70, 6068HBM07

Sdmo-Generator

J120U, R130U, J130K, R135, J150U, R165
J165K, R170U, J175U, R200, J200K, R200U

Neuson

18002HVT

Rottne

SMV - Rapid Forwarder

JOHN DEERE 6068 6.8T/H PISTON (M) RE521616 TIER 2 & TIER 3

EQUIPMENT MODELS

Sprayers

4730 4830 5430I

Farm Tractors

6520 6620 6820 6920 7530 7630
7730 7830 7930 7195J 7210J 7225J
7430E 7530E

Wheeled Harvesters

1170E 1270D 1470D

Combines

1450CWS 1450WTS 1550CWS 1550WTS 9540I WTS 9560 STS
9560I WTS 9570 STS 9580I WTS S550 STS T550 W540
W550

Forestry Swing Machines

2954D

Excavators

370 330C 330C LC 330LC 330LCR 370C

Backhoe Loaders

535 530B

Wheel Loaders

644K 644J 524K-II 544K-II 624K

Motor Grader

672G 672GP 670GP

Crawlers

850J 850J-II 755D

Forwarders

1510E 1210E

Skidder

648L 648H 648G-III 748H 848H 640G-III
640H

Hi Power Genset

HJW205T6

Engine Model

6068HBM01 6068HCQ07 6068HCQ81 6068HDW64 6068HDW65 6068HDW66
6068HDW69 6068HDW71 6068HDW75 6068HDW77 6068HDW80 6068HDW83
6068HF485 6068HFG85 6068HFL84 6068HH058 6068HH059 6068HH060
6068HH061 6068HH062 6068HL483 6068HN053 6068HN056 6068HN057
6068HNW02 6068HRT81 6068HRT82 6068HRW64 6068HRW65 6068HRW78
6068HT061 6068HT062 6068HT070 6068HT077 6068HT083 6068HT087
6068HT090 6068HT480 6068HTJ89 6068HWZ80 6068HXU01 6068HZ480
6068HZ482 6068HZ483 6068RW208 6068HBZ05 6068HBZ06 6068HT109
6068HN065 6068HZ484 6068HCQ05 6068HDW91 6068DW201 6068DW301
6068RW301 6068RW203 6068HT082 6068HTJ01 6068HDW90 6068HT121

Aksa-Gensets

APD-AJG200 APD-AT200 APD-EPAJ200 APD-ULJ200

Claas Tractor

Axion 850

Liebherr

L550 - Wheel Loader

JOHN DEERE 6068 6.8T/H PISTON (M) RE515037 TIER 2 & TIER 3

EQUIPMENT MODELS

Farm Tractors

6530 6630 6830 6930 7130 7230
7330 7430 7530

Wheeled Harvesters

1070E

Engine Model

6068HL480 6068HL481 6068HL482 6068HL484 6068HL487 6068HL488
6068HRW73 6068HRW75 6068HRW77 6068HRW80 6068HRW81 6068HRW82
6068HRW83 6068HRW84 6068HTJ87 6068HTJ85

JOHN DEERE 6068 6.8T/H PISTON (M) RE507758 TIER 2 & TIER 3

EQUIPMENT MODELS

Sprayers

4730 4830 5430I

Wheeled Harvesters

1170E 1270D 1470D

Excavators

370 330C 330C LC 330LC 330LCR 370C

Wheel Loaders

644G 644H 644J 724J

Motor Graders

770C 770C II 770CH 770CH II 770D 772CH
772CH II 772D 870D 872D

Forwarders

1710D

Skidders

560D 660D 740G 748G 748GII 748GIII
786G 848G

Track Harvesters

753GL

Engine Model

6068HDW57 6068HDW58 6068HDW61 6068HF475 6068HH054 6068HH055
6068HN051 6068HN052 6068HRW54 6068HRW61 6068HTJ54 6068HTJ55
6068HZ470 6068HFS77

Farm Tractors

7530 7630 7730 7830 7930 7195J
7210J 7225J 7430E 7530E

Combines

9550 9550SH 9560 9560SH 9970

Backhoe Loaders

535 530B

Scrapers

762B

Crawlers

850C 850C-II

Logger

3554

Clam Bunks

1711D

Feller Bunchers

608L 608S 753G 753J 753JH 759G
759J 759JH 853G 903G 953G

Articulated Dump Trucks

250D

Hi Power-Gensets

HJW205T6

Genmac-Gensets

STAR ROYAL
G200JO G200JS

JOHN DEERE 6068 6.8T/H PISTON (M) RE527039 TIER 2 & TIER 3 (2)

EQUIPMENT MODELS

Forwarder

1110D 1110E 1210E 1410D 1510E

Harvester

970D 1070D 1070E 1490D

Skidders

640H 648GIII 648H 540H 548H 648L
748H

Farm Tractors

6530 PREM 7230 PREM 6630 PREM 7330 PREM 6830 PREM 7430 PREM
6930 PREM 7530 PREM

Wheel Loaders

624KII 624KR 640GIII 624J 624K

Engine Model

6068HF285 6068HDW67 6068HDW73 6068HDW76 6068HDW79 6068HRT80
6068HTJ75 6068HTJ86 6068HTJ88 6068HL486 6068HDW89 6068HL280
6068HTJ56 6068HT063 6068HT066 6068HT069 6068HT072 6068HRW74
6068HRW72 6068HN054 6068HL287 6068HL284 6068HL282 6068HL281
6068HFG82 6068HE051 6068HE050 6068HDW74 6068HDW70 6068HCQ82
6068HFC28 6068HL286 6068HT085

Hi Power-Gensets

HJW205T6

JOHN DEERE 6068 6.8T/H PISTON (M) RE545770 TIER 2 & TIER 3

EQUIPMENT MODELS

Tractor

1654	2054	2104	1854	6135J	6135M
6140B	6140M	6150J	6150M	6155M	6165J
6170J	6170M	6175M	6185J	6190J	6190M
6195M	6205J	6210J	6210J	6210M	6B-1404
6J-1654	6J-1854	6J-2054	6J-2104		

Sprayer

M4025

Combine

C230	C240	C440	R230	S430	W230
W430					

Wheel Loader

WL53	WL56

Engine Model

6068HBM09	6068HBM10	6068HBM11	6068HBM12	6068HBM15	6068HCP01
6068HCQ13	6068HFG82	6068HFS86	6068HFU82	6068HL289	6068HL290
6068HNW06	6068HNW09	6068HT129	6068HYC54	6068HYC59	6068HYC60
6068HYH01	6068HYH02	6068HYH03	6068HYH06	6068HYH07	6068HYH08
6068HYN01	6068HYN03	6068HYN04			

JOHN DEERE 6068 6.8L PISTON (M) RE544601 INTERIM TIER 4

EQUIPMENT MODELS

Farm Tractor

6170R 6190R 6210R 7200R 7210R 7215R 7230R

Forwarder

1110E 1210E 1510E

Wheeled Harvester

1070E 1170E

Engine Model

6068HDW78 6068HDW85 6068HFC94 6068HFC95 6068HFG55 6068HFG94 6068HFG95 6068HL495 6068HL497 6068HN071 6068HN077 6068HT073 6068HT074 6068HT080 6068HT084 6068HTJ90 6068HTJ91 6068RW202 6068RW204 6068RW205 6068RW209 6068RW210 6068RW401 6068RW402 6068RW403 6068RW404 6068RW414 6068RW415 6068RW201

Excavator

250GLC 290GLC

Loader

624K 644K 755K

Crawler Dozer

750K 850K

Self-Propelled Sprayer

R4040I R4050I R4140I R4150I

JOHN DEERE 6068 6.8L PISTON (M) RE553821 TIER 4 FINAL

EQUIPMENT MODELS

Farm Tractor

6145R	6155M	6155R	6155RH	6175M	6175R
6195M	6195R	6215R	6E-1404L	6E-1404PL	6E-1504L
6E-1504PL	6M-1654	6M-1854	6M-2104	6R 145	6R 155
6R 165	6R 175	6R 185	6R 195	6R 215	

Knuckleboom Log Loader

337E	437E

Swing Machine

2154G	2154GLC	2156G	2156GLC

Wheeled Harvester

1070G	1170G

Wheeled Feller Buncher

643L	643L-II

Skidder

640L	648L

Forestry Swing Machine

2654G

Wheel Loader

524 P-tier	524K	524K-II	524L	544 G-tier	544 P-tier
544K	544K-II	544L	624 P-tier	624K	624K-II
624L	644G	644 G-tier			

Crawler Loader

655K	755K

Combine

C1 200	C2 300	C2 400 NR4	C230 NR4	C440 NR4	R2 300 NR4
R230 NR4	W2 300	W230 NR4	W540		

Crawler Dozer

700K	700L	700L PL	750K	750L	850K

Forwarder

1110G	1210G	1510G

Self-Propelled Sprayer

340M

Excavator

210 P-tier	250 P-tier	250GLC

Self-Propelled Spraye

R4040I	R4050I	R4140I	R4150I

Engine Model

6068CP550	6068DW401	6068DW501	6068DW502	6068HB430	6068HB450
6068HB551	6068HCP05	6068HCP06	6068HDW87	6068HDW92	6068HDW94
6068HDW96	6068HFC08	6068HFC09	6068HFG05	6068HFG08	6068HFS01
6068HG550	6068HI550	6068HL498	6068HL499	6068HL501	6068HL502
6068HL503	6068HL504	6068HL505	6068HL507	6068HL535	6068HL538
6068HL555	6068HL557	6068HL558	6068HN063	6068HN070	6068HN075
6068HP550	6068HT098	6068HT099	6068HT100	6068HT101	6068HT102
6068HT103	6068HT106	6068HT108	6068HT125	6068HT127	6068HT132
6068HT139	6068HTJ08	6068HTJ18	6068HTJ28	6068HTJ57	6068HTJ59
6068HTJ65	6068HTJ98	6068HYC61	6068HYC62	6068HYC63	6068HYH10
6068HYH11	6068HYH12	6068HYN05	6068HYN09	6068HZ501	6068HZ503
6068HZ505	6068RW423	6068RW424	6068RW429	6068RW440	6068RW441
6068RW450	6068WG201	6068WG301	6068WG501	6068RW444	

JOHN DEERE 6081 HIGH COMPRESSION PISTON, TO ESN 199,999

EQUIPMENT MODELS

Combines

2256	2258	2264	2266	9510	9550
9510 SH	9550 SH	9560 WTS	9560i WTS	9580 WTS	9580i WTS
9640 WTS	9640i WTS				

Cotton Pickers

9970

Crawler Dozers

850 C	850 C-II	850 J	850J

Excavators

370	330C LC	330 LC	330 LCR	370 C

Forwarders

1710 D

Motor Graders

770 C Series II	770 C	770 CH Series II	770 CH	770 D	772 CH Series II
772 CH	772 D	870 D	872 D		

Farm Tractors

7710	7810	8100	8110	8200	8210
8300	8310	8400	9100	8100T	8110T
8200T	8210T	8300T	8310T	8400T	

Harvesters

1270D	1470D	753 GL

Scrapers

762 B

Feller Bunchers Log Loarders

608 L	608 S	753 G	753 J	753 JH	759 G
759 J	759 JH	850	853 G	900	903 G
950	953 G	535	530 B	3554	

Loaders

644 G	644 H	644 J	724 J	

Skidders

560 D	660 D	740 G	748 G	748 G-II	748 G-III
848 G					

Engine Model

6081AF001	6081AN001	6081AT001	6081AT002	6081ATJ01	6081ATJ02
6081ATJ03	6081HDW01	6081HDW03	6081HDW04	6081HDW05	6081HDW06
6081HDW10	6081HH001	6081HH002	6081HH008	6081HH009	6081HH020
6081HH021	6081HRW01	6081HRW03	6081HRW04	6081HRW06	6081HRW08
6081HRW09	6081HRW10	6081HRW11	6081HRW12	6081HRW13	6081HRW14
6081HRW15	6081HRW16	6081HRW27	6081HT001	6081HT006	6081TDW01
6081TF001	6081TRW01	6081TRW02	6081TRW03	6081TRW04	6081TRW05
6081TRW06	6081TRW07	6081TRW08	6081TRW09	6081TRW10	6081AJ61

JOHN DEERE 6081 LOW COMPRESSION PISTON, TO ESN 199,999

EQUIPMENT MODELS

Combines

2264	2266	9610	9650	9660	9560 STS
9580 WTS	9640 WTS	9640i WTS	9650 CTS	9650 STS	9660 CTS
9660 STS	9660 WTS	9660i WTS	9680 WTS	9680i WTS	9750 STS
9760 STS	9780 CTS	9780i CTS	9850i WTS	CTS	CTS II

Forage Harvesters

6610	6650	7200

Cotton Pickers

9976	9986	9996

Cane Harvesters

3510	CH3510

Sprayers

4920

Farm Tractors

8400	8410	9100	8410T

Engine Model

6081HF001	6081HH003	6081HH005	6081HH006	6081HH010	6081HN001
6081HN003	6081HRW02	6081HRW05	6081HRW07	6081HT004	6081HT005
6081HZ001	6081HZ002	6081HZ004	6081HZ005	6081HZ006	6081HZ007

JOHN DEERE 6081 FORGED STEEL PISTON, FROM ESN 200,000 AND UP

EQUIPMENT MODELS

Farm Tractors

8120 8220 8320 8420 8520 7710
7810 8120T 8220T 8320T 8420T 8520T
7820 7920

Loggers

3554

Harvesters

703JH

Feller Bunchers

608S 753G 608L 753GL 608B 703G
759G 753J 753JH 759J 759JH

Excavators

330CLC 370C

Motor Graders

770D 772D 870D 872D

Engine Model

6081HDW08 6081HDW09 6081HDW13 6081HRW25 6081HRW31 6081HRW32
6081HRW33 6081HRW34 6081HRW41 6081HRW42 6081HRW43 6081HT002
6081HT008 6081HTJ05 6081HTJ06 6081HTJ07 6081HTJ08 6081HZ009
6081HT005

JOHN DEERE POWERTECH 6090 9.0L TIER 2 & 3, PISTON # RE529264

EQUIPMENT MODELS

Farm Tractors

2854	3520	8520	8130	8230	8330
8430	8530	9230	8130 AT2 ILS	8130 AT2 MFWD	8130 ILS
8130 MFWD	8225R	8225R ILS	8225R MFWD	8230 HDMFWD	8230 ILS
8230 MFWD	8230	8230T	8330	8330 ILS	8235R
8245R	8245R HDMFWD	8245R ILS	8245R MFWD	8260R	8270R
8270R HDMFWD	8270R ILS	8270R MFWD	8285R	8295R HDMFWD	8295R ILS
8295R MFWD	8295RT	8310R	8310RT	8320R	8320R MFWD
8320RT	8330 HD MFWD	8330 HDMFWD	8330 ILS	8330 MFWD	8330T
8335R	8335RT	8345R	8345R ILS	8345R MFWD	8345RT
8430 HDMFWD	8430 MFWD	8430	8530	8430T	8530 HDMFWD
8530 ILS	870G	870GP	8360R	8360RT	8370R
8370RT	8320T	8320RT			

Sugar Cane Harvesters

8320	3522

Self Propelled Forage Harvesters

7200	7250

Tractor Atlas

8030	8030 HDMFWD	8030 ILS

Harvesters

1270D	1270E	1470D	1470E	703JH	753JH
759J	759JH	909KH	1270G	1470G	959K

Motor Graders

670G	670GP	672G	672GP	770G	770GP
772G	772GP	872G	872GP		

Engine Model

6090HFL85	6090HCQ01	6090HF475	6090HF484	6090HF485	6090HFG86
6090HH008	6090HN005	6090HT002	6090HT007	6090HT009	6090HTJ03
6090HTJ04	6090HRW31	6090HRW07	6090AFM75	6090HFG84	6090HNW04
6090HT804	6090HFC47	6090HDW01			

Sdmo-Generator

R260UC3	R275C3E	R275RC	R330C3	R330RC	R330C3E

Self Propelled Sprayers

4930	4940	7180	R4038

Cotton Pickers

7660

Combines

9640	9660	9680	9560 STS	9560i STS	9660 STS
9670 STS	9760 STS	9770 STS	C670	S560	S660 STS
S670 STS	S670 STS	T560	T660	T670	W650
W660	9780CTS				

Excavators

350DLC	350GLC	380GLC	E330LC	E360

Forestry Swing Machines

3754D

Forwarders

1710D

Clam Bunks

1711D	1711D2

Aksa-Gensets

APD-AT250

Hi Power-Gensets

HJW225T6	HJW275T6	HRJW250T6	HRJW310T6

Vermeer Mfg

T655iii

JOHN DEERE POWERTECH 6090 9.0L TIER 4, PISTON # RE555132

EQUIPMENT MODELS

Farm Tractors

7230R	7260R	7280R	7290R	7310R	8245R
8260R	8270R	8285R	8295R	8310R	8310RT
8320R	8320RT	8335R	8335RT	8345R	8345RT
8360R	8360RT	8370R	8370RT	9360R	9370R

Harvesters

8100	8200	803M	803MH	853MH	859M
859MH					

Loader

744L 824L

Shovel Logger

953ML 959ML

Self Propelled Sprayers

R4044 R4060 STS16

Combines

S650 S660 S670 W650

Forestry Swing Machines

3154G 3754G 3756G

Forwarders

1910G

Dump Truck

250D 300D

Engine Model

6090HFC09	6090HFG09	6090HZ013	6090HZ018	6090HZ020	6090HZ029
6090HZ030	6090HZ019	6090HTJ31	6090HDW15	6090HT014	6090RW401
6090RW402	6090RW430	6090RW431	6090RW462	6090RW463	6090RW475
6090RW476	6090RW485	6090HDW30	6090HDW32	6090HTJ20	6090HTJ29
6090HTJ32	6090RW246	6090RW247	6090RW423	6090RW441	6090RW442
6090RW444	6090RW445	6090RW452	6090RW453	6090RW454	6090RW456
6090RW457	6090RW465	6090RW467	6090RW488	6090RW489	6090RW490
6090RW491	6090RW493	6090RW211	6090RW213	6090RW215	6090RW217
6090RW411	6090RW413	6090RW415	6090RW417	6090RW419	6090RW421
6090RW238	6090RW239	6090RW243	6090RW244	6090RW245	6090RW440
6090RW443	6090RW455	6090RW464	6090RW466	6090RW469	6090RW221
6090RW210	6090RW212	6090RW214	6090RW216	6090RW223	6090RW224
6090RW225	6090RW226	6090RW228	6090RW410	6090RW412	6090RW414
6090RW416	6090RW418	6090RW420	6090RW422	6090RW240	6090RW241
6090RW242	6090RW302	6090RW303	6090RW448	6090RW449	6090RW450
6090RW451	6090RW301	6090RW477	6090RW503	6090RW458	6090RW459
6090RW460	6090RW461	6090RW470	6090RW471	6090RW473	6090RW478
6090RW494	6090RW495	6090RW497	6090RW232	6090RW233	6090RW234
6090RW235	6090RW231	6090RW403	6090HTJ35	6090RW222	6090RW222
6090RW434	6090RW474	6090RW487	6090RW502	6090HTJ25	6090HN009
6090HN018	6090HN008	6090HH006	6090HH015	6090HH016	6090HH023
6090HFA02	6090HZ027				

JOHN DEERE POWERTECH 6090 9.0L TIER 4, PISTON # DZ102298

EQUIPMENT MODELS

Farm Tractors

7R 290	7R 310	7R 330	7R 350	8400R	8R 230
8R 250	8R 280	8R 310	8R 340	8R 370	8R 410
8R-2304	8R-2704	8R-3004	8RT 310	8RT 340	8RT 370
8RT 410	8RX 310	8RX 340	8RX 370	8RX 410	

Loader

744 P 824 P

Self Propelled Sprayers

STS12	STS16	STS20	400R	410R	412R

Combines

S760	S770	T560	T660	T670	W660

Excavator

350 P 380 P

Engine Model

6090HDW48	6090HDW49	6090HFA01	6090HFA03	6090HFA04	6090HH006
6090HH021	6090HH026	6090HH027	6090HH028	6090HH029	6090HH030
6090HH034	6090HN019	6090HN023	6090HT027	6090HZ007	6090HZ025
6090HZ028	6090RW479	6090RW480	6090RW481	6090RW484	6090RX201
6090RX202	6090RX301	6090RX302	6090RX303	6090RX305	6090RX306
6090RX307	6090RX308	6090RX309	6090RX310	6090RX501	6090RX502
6090RX503	6090RX504	6090RX505	6090HFU84		

JOHN DEERE POWERTECH 6125, PISTON # RE505901, RE518748, RE524324

EQUIPMENT MODELS

Combines

9750 STS 9860 STS

Farm Tractors

9200 9220 9300 9320 9420 9520

Engine Model

6125AF001 6125AFM75 6125HDW01 6125HDW02 6125HDW03 6125HF070
6125HH003 6125HH006 6125HRW01 6125HRW02 6125HRW05 6125HRW07
6125HRW13 6125HRW14 6125HRW15 6125HRW16 6125HRW17 6125HT001
6125SFM75

Excavators

450C LC 450LL

Loaders

744J 824J 844J

JOHN DEERE POWERTECH 6135, PISTON # R517128 TIER 3

EQUIPMENT MODELS

Farm Tractors

9330	9410R	9420RX	9430	9430T	9460R
9460RT	9470RX	9510R	9510RT	9520RX	9530
9530T	9560R	9560RT	9570RX	9630	9630T

Cotton Pickers

7760	CP690	CS690

Articulated Dump Trucks

370E	370E II	410 P-Tier	410E	410E II	460 P-Tier
460E	460E II				

Excavators

470 P-Tier

Self Propelled Forage Harvesters

7380	7450	7480	7550	7580	7750
7780	8200	8300	8400	8500	8600
9600					

Combines

9870 STS	S680	S680HM	S685	S685HM	S690
S690HM	S780	S785	S790		

Loaders

824K	824K Series II	844 P-Tier	844K	844K Series II	844L
					844LAH
904 P-Tier	944 X-tier				

Engine Model

6135AFM85	6135HDW01	6135HDW03	6135HDW07	6135HDW09	6135HDW10
6135HDW13	6135HDW17	6135HDW18	6135HDW20	6135HDW21	6135HF475
6135HF485	6135HFC48	6135HFG06	6135HFG75	6135HFG84	6135HG485R01
6135HGF75R01	6135HGF84R01	6135HH001	6135HH002	6135HH004	6135HH005
6135HH006	6135HH007	6135HH008	6135HH009	6135HH010	6135HH011
6135HN001	6135HN003	6135HN004	6135HN005	6135HN006	6135HN007
6135HN008	6135HRW01	6135HRW02	6135HRW04	6135HT011	6135HZ006
6135HZ007	6135HZ008	6135HZ009	6135HZ010	6135HZ011	6135HZ012
6135HZ013	6135HZ014	6135HZ015	6135HZ016	6135HZ017	6135HZ018
6135HZ021	6135HZ022	6135HZ023	6135HZ025	6135HZ026	6135HZ027
6135RW203	6135RW405	6135SFM75	6135SFM85		

PERKINS 104-22

EQUIPMENT MODELS

Miller Electric

BIG BLUE 402P - Arc Welder
BIG BLUE 502P - Arc Welder
BIG BLUE 602P - Arc Welder

Ditch Witch-Directional Boring System

JT920
JT920L
JT921
JT921S

Scat Track

1500C - Skid Steer

Volvo

1500C - Skid Steer

JCB

8040ZTS - Mini Excavator
8045ZTS - Midi Excavator
TLT25D - Teletruck
TLT30D - Telescopic Forklift
TLT35D - Telescopic Forklift
515-40 - Telehandler
520-40 - Telescopic Forklift

Genie-Boom Lift

Z45/25
Z45/25 IC
Z45/25J
Z45/25J IC
Z60/34

403C-15 PERKINS

EQUIPMENT MODELS

Case IH-Farm Tractors

D33	DX31	DX33	DX33

New-Holland

L140 - Skid Steer	L150 - Skid Steer	LS465 - Skid Steer	LX485 - Skid Steer	TC30 - Tractor	TC33 - Tractor
TC33D - Tractor	TC33DA - Tractor	LX465 - Skid Steer	LS140 - Skid Steer	LS150 - Skid Steer	

Fg Wilson-Gensets

P10P2S	P11-4S	P11-6S	P11E2S	P12.5P2	P13.5-4
P13.5-6	P13.5E2	PH17.5E2S	PH22E2		

Aksa-Gensets

APD-EPAP13	APD-EPAP13S	APD-ULP13

Marine Power Systems-Engine

415GM

PERKINS 403A-15 (GU), 403D-15 (GK)

EQUIPMENT MODELS

Aksa-Gensets

APD-EPAP13 | APD-EPAP13S | APD-EPA13 | APD-ULP13

JCB-Excavators

8029 CTS | 8035 ZTS | 8029 CTS | 8035 ZTS

Rcg Power-Gensets

R-P13 | R-P13-1

Yanan

PE13-ER | PE13-ER-E

ASV

PT-30 - Posi-Track Comp Track Loader

KZ Power

KZP-G15 - Genset

Dingxin-Genset

DP11S

Genmac-Gensets

Duplex G13PO | Dynamic G13PS | Duplex G15PO | Dynamic G15PS

Mpmc Powertech-Gensets

MP13-1 | MP15-1 | MP15S-1 | MP13-2 | MLT4PME-4000LHC | MP13S-1 | MP15-2 | MP15S-2 | MP13S-2

Teksan-Gensets

TJ17PE6A | TJ16PE6S

Weidemann-Hoftrac

1160 | 1240LP

Case-IH

FARMALL 31 - Tractor

New-Holland

BOOMER 2030 - Tractor | L150 - Skid Steer | T1510 - Tractor | T2210 - Tractor

PERKINS 404C-22 PERKINS

EQUIPMENT MODELS

Case-IH

SR130 - Skid Steer	410 - Skid Steer	D45 - Tractor	DX45 - Tractor	DX48 - Tractor

Genie-Boom Lifts

Z45/25	Z45/25 IC	Z45/25J	Z45/25J IC	Z60/34

Hobart

5040P - Welder

New-Holland

L213 - Skid Steer	3415 - Tractor	TC45 - Tractor	TC45A - Tractor	TC45D - Tractor	TC45DA - Tractor
TC48DA - Tractor	L160 - Skid Steer	L565 - Skid Steer	LS160 - Skid Steer	LX565 - Skid Steer	

Takeuchi

TW50 - Comp Track Loader

Ditch Witch-Directional Drill

JT920	JT920L	JT921	JT921S

Fg Wilson-Gensets

P13P2S	P14E2S	P15P2S	P16.5E2S	P16.5P2	P18E2
P20P2	P22E2	PH24E2S	PH28E2S	PH30E2	PH35E2

JCB

8040ZTS - Mini Excavator	8045ZTS - Mini Excavator	TLT25D - Teletruck	TLT30D - Teletruck	TLT35D - Teletruck	515-40 - Loadall
		520-40 - Loadall			

Miller Electric-Gensets

BIG BLUE 302P	BIG BLUE 452P	BIG BLUE 500PT	BIG BLUE 500X	BIG BLUE 600X

Asv-Posi-Track

RC-50 - Track Loader	SCOUT SC50 - Track Loader

Marine Power Systems-Gensets

422GM

404C-22T PERKINS

EQUIPMENT MODELS

Asv -Posi Track Loader

PT50 PT60 RC-60

Case-IH

420 - Skid Steer
420CT - Skid Steer
DX55 - Tractor
SR160 - Skid Steer
SV185 - Skid Steer

New-Holland

C175 - Skid Steer
L175 - Skid Steer
LS175 - Skid Steer
L215 - Skid Steer
L218 - Skid Steer
L220 - Skid Steer
L170 - Skid Steer
TC55DA - Tractor

Ransomes

HR-6010 - Mower

JCB-Teletrucks

TLT30
TLT30D 4x4

Marine Power Systems

422TGM

Takeuchi

TW60 - Wheel Loader

PERKINS 404A-22 (GV), 404D-22 (GN)

EQUIPMENT MODELS

Aksa-Gensets

APD-EPAP20
APD-EPAP20S
ADP-ULP20

Fg Wilson-Gensets

P14-4S
P14-6S
P16.5-4S
P16.5-6S
P18-6
P22-4
P22-6

Genmac-Gensets

DUPLEX G20PO
DYNAMIC G20PS*

Teksan

TJ23PE6A
TJ25PE6S

Weidemann

1380 - Hoftrac
1880 FSD - Hoftrac
1880 CAB - Hoftrac
2070 CX50LP - Wheel Loader
2080 - Wheel Loader
2070 CX50LPT - Tele Loader
3080LP - Wheel Loader
2080T - Tele Loader
3080LPT - Tele Loader
T5522 - Telehandler

Case-IH

FARMALL 45 - Tractor
FARMALL 45A - Tractor
FARMALL 45B - Tractor
FARMALL 50 - Tractor
FARMALL 50B - Tractor
SR130 - Skid Steer

Takeuchi-Skid Steers

TS50R
TS50V

Terex

TSR-50 - Skid Steer
TSV-50 - Skid Steer
PT-50 Posi-Track - Compact Loader

Mpmc-Powertech

MP20-1
MP20S-1
MP21-2
MP21S-2

Rcg-Power

R-P20
R-P20-1

Yanan

PE20-ER
PE20-ER-E

New-Holland

BOOMER 3045 - Tractor
BOOMER 8N - Tractor
L213 - Skid Steer
T1530 - Tractor
T2320 - Tractor
T2330 - Tractor

Dingxin

DP18S - Genset

PERKINS 404D-22T (GP)

EQUIPMENT MODELS

Aksa-Gensets

APD-EPAP28 | APD-EPAP28S | ADP-ULP28

SINOBOOM-Wheeled Articulated Work Platforms

AB15J | AB15 | TB18J | TB16

Takeuchi

TS60R - Skid Steer | TS60V - Skid Steer

Mpmc-Powertech

MP28-2 | MP28S-2

New-Holland

T2410 - Tractor | T2420 - Tractor

Godlike

GDP26*S - Genset

Case-IH

410 - Skid Steer | SR175 - Skid Steer | SV185 - Skid Steer | DX55 - Tractor | DX60 - Tractor | FARMALL 60 - Tractor

Grandwatt-Gensets

G24XHD | G28XHD

Terex

TSR-60 - Skid Steer | TSV-60 - Skid Steer | PT-60 - Posi-Track

Yanan

PE25-ER | PE25-ERE-E

Lincoln-Electric

K2728-5

Dingxin

DP22S - Genset

PERKINS 404D-22TA (GR)

EQUIPMENT MODELS

Aksa-Gensets

APD-EPAP30	APD-EPAP30S	ADP-ULP30	AT30

Mpmc-Powertech

MP30-2	MP30S-2

Case-IH

DX55 - Tractor	DX60 - Tractor	FARMALL 60 - Tractor	SR150 - Skid Steer	SR175 - Skid Steer	SV185 - Skid Steer

New-Holland

BOOMER 4055 - Tractor	BOOMER 4060 - Tractor	C175 - Skid Steer	L175 - Skid Steer	L215 - Skid Steer	L218 - Skid Steer
		L220 - Skid Steer	T2420 - Tractor		

PERKINS 404F-22 (EN)

EQUIPMENT MODELS

Build List

EN71225	EN71358	EN82259	EN82366	EN82981	EN82984
EN83007	EN83269	EN83356	EN71204		

Takeuchi-Skid Steers

TS50R	TS50V

New-Holland

BOOMER 3045 - Tractor	BOOMER 8N - Tractor	L213 - Skid Steer	T1530 - Tractor	T2320 - Tractor	T2330 - Tractor

Aksa-Gensets

APD-ULP20	APD-EPAP20S	APD-EPAP20

Terex

TSR-50 - Skid Steer	TSV-50 - Skid Steer	PT-50 - Posi-Track Compact Loader

Case-Ih

FARMALL 45 - Tractor	FARMALL 45A - Tractor	FARMALL 45B - Tractor	FARMALL 50 - Tractor	FARMALL 50B - Tractor	SR130 - Skid Steer

Fg-Wilson-Gensets

P14-4S	P14-6S	P16.5-4S	P16.5-6S	P18-6	P22-4
P22-6					

Weidemann

1380	1880 FSD	1880 CAB	2070 CX50LP	2080	3080LP
				2070 CX50LPT	2080T
					3080LPT
T5522					

PERKINS 404F-22T (EP)

EQUIPMENT MODELS

Build List

EP71239
EP71255
EP82260
EP82368
EP82467
EP82982
EP82983
EP82985
EP83521

Vermeer

D16X20A - Directional Drill

Takeuchi

TS50R - Skid Steer
TS50V - Skid Steer

New-Holland

BOOMER 3045 - Tractor
BOOMER 8N - Tractor
L213 - Skid Steer
T1530 - Tractor
T2320 - Tractor
T2330 - Tractor

Aksa-Gensets

APD-ULP20
APD-EPAP20S
APD-EPAP20

Bobcat

843 - Skid Steer

Terex

TSR-50 - Skid Steer
TSV-50 - Skid Steer
PT-50 Posi-Track Compact Loader

Case-IH

FARMALL 45 - Tractor
FARMALL 45A - Tractor
FARMALL 45B - Tractor
FARMALL 50 - Tractor
FARMALL 50B - Tractor
SR130 - Skid Steer

Fg-Wilson

P14-4S
P14-6S
P16.5-4S
P16.5-6S
P18-6
P22-4
P22-6

Weidemann

1380
1880 FSD
1880 CAB
2070 CX50LP
2080
2070 CX50LPT
3080LP
2080T
3080LPT
T5522

PERKINS 704-30 (UA) NATURALLY ASPIRATED

EQUIPMENT MODELS

Build List

UA35050	UA35052	UA35055	UA36174	UA36183	UA36252
UA36267	UA36272	UA36276	UA36305	UA36314	UA36335
UA36351	UA36355	UA36370	UA36383	UA36385	UA36429
UA36496	UA36524	UA36590	UA36614	UA36625	UA36641
UA36709	UA36771	UA36811	UA36835	UA36872	UA36928
UA36987	UA37052	UA37093	UA37099	UA37136	UA37208
UA37217	UA37223	UA37241	UA37245	UA37247	UA37249
UA37254	UA37277	UA70384	UA70412	UA70454	UA70478
UA70505	UA80863	UA80870	UA80979	UA80992	UA81024
UA81057	UA81059	UA81084	UA81106	UA81127	UA81150
UA81175	UA81185	UA81263	UC81310	UA81321	UA81358

Bobcat

843 - Skid Steer

Iseki

TJ75 - Tractor

Vermeer-Mfg

D16X20A - Drill

PERKINS 804C-33T (UF) ENGINE, TURBOCHARGED

EQUIPMENT MODELS

Agco

UF35160 UF35161 UF35162

Skid Steers

UF35216 UF35246 UF35217 UF35248 UF35250

Industrial

UF35153 UF35154 UF35155 UF35156 UF35157 UF35147
UF35148 UF35149 UF35150

Landini Tractors

ALPINE 65 ALPINE 75 ALPINE 85

PERKINS 804D-33T (UL) ENGINE, TURBOCHARGED

EQUIPMENT MODELS

Access Platforms

UL35233 UL35237 UL35251 UL35252 UL35253 UL3256
UL70773 UL70968 UL81951 UL82581

Wheel Loaders

UL35230 UL35236 UL35255 UL35259 UL70774 UL70839
UL81977 UL82076 UL82118 UL35232 UL35239 UL35257
UL35260 UL70838 UL81954 UL82048 UL82104 UL82433
UL82650

Forklift Trucks

UL35234 UL35254

Skid Steer

UL35245 UL70770 UL35258 UL71072

PERKINS 1004.40

EQUIPMENT MODELS

Clark Equipment-Fork Lift Trucks

CGC40 - (CGC470)	CGC50 - (CGC470)	CGC55 - (CGC470)	CGC60 - (CGC470)	CGC70 - (CGC470)	CGP40 - (CGP460)
CGP45 - (CGP460)	CGP50 - (CGP460)	CGP55 - (CGP460)			

Hyster

H70-155XL - (AA70218)	S80-S155XL - (AA70218)	H80-155XL - (AA70216)

Manitou

KD	KD Low Emissions

Landini

Globus 65 - Tractor

Fg Wilson

P27P1S	XP27P1S	P30E1	P30E1S	P32P1S	XP32P1S
P35E1S	P36P1S	P40E1S	P40P1	XP35E1S	XP36P1S
XP40P1	P44E1	P45P1	XP44E1	XP45P1	P50E1
XP50E1					

Jcb

3CX - Backhoe (AA50508)

Harlan-Low Profile Tractors

HLP30	HLP40	HLP50	HLP80	HTA30	HTA40
HTA50	HTA60	HTA70	HTA80		

PERKINS 1004.40 2

EQUIPMENT MODELS

Clark Equipment-Fork Lift Trucks

C500Y 110-155 - (AA70370)	CGC40 - (CGC470) CGP40 - (CGP460)	CGC50 - (CGC470) CGP45 - (CGP460)	CGC55 - (CGC470) CGP50 - (CGP460)	CGC60 - (CGC470) CGP55 - (CGP460)	CGC70 - (CGC470)

Hyster-Forklifts

H70-155XL - (AA70218)	H80-155XL - (AA70218)	S80-S155XL - (AA70218)

Manitou

KD	KD Low Emissions

Fg Wilson

P27P1S	XP27P1S	P30E1S	P32P1S	XP32P1S	P35E1S
P36P1S	P40E1S	P40P1	XP35E1S	XP36P1S	XP40P1
P44E1	P45P1	XP44E1	XP45P1	P50E1	XP50E1

Harlan-Low Profile Tractors

HLP30	HLP40	HLP50	HLP80	HTA30	HTA40
HTA50	HTA60	HTA70	HTA80		

Jcb

3CX - Backhoe (AA50508)	Backhoe loader - (AA50608)

Perkins Sabre Marine

44GM - Power Unit

PERKINS 1004.40T FROM ESN U608301W (1992)

EQUIPMENT MODELS

Fg Wilson

P45P1S	XP45P1S	P50E1S	XP50E1S	P56P1S	P60P1
P62E1S	XP60P1	P65E1	P72SP1	P75P1	P80ESP1
P80SP1	XP65E1	XP75P1	P83E1	P88ESP1	P100
P100E	XP83E1	XP90	XP100	XP100E	

Tovel

TL20-22-25 - Telehandler	TL6-44-36 - Telehandler

Jcb

3CX - Backhoe (AB50609)	3CX - Backhoe(AB50239)	415 - Loader(AB50253)

Komatsu

PC120-5K	PC130-5K	PC150HD-5K

Bobcat

963 - Skid Steer

Massey Ferguson

6130	6140

PERKINS 1004.40/40T

EQUIPMENT MODELS

Jcb

Backhoe - (AK50628)	Shovel Loader - (AK50610)

Case IH

CX100 - Tractor	C90 - Tractor	C100 - Tractor	C80 - Tractor	CX80 - Tractor	CX90 - Tractor

McCormick

MC80 - Tractor	MC100 - Tractor	MC90 - Tractor

Tovel

TL20-22-25 - Tovelazer	TL6-44-36 - Tovelazer

Bobcat

963 - (AK70383)

Massey Ferguson

3330	3350	3355	4325	4345	4355
4365	6235	6245	6255	6265	

PERKINS 1006.60T FROM ESN 557977X

EQUIPMENT MODELS

Build List

YD35099

Dingxin

DP88S DP120S DP132S

Jcb

435 - Front Loader (YB50292)

Tovel

TS18-44

Hyster

H165-360XL - (YB70344)

Massey Ferguson

3625 - (YB31245) 6190 640 660 680

Komatsu

PC180NLC-5K PC210-5K PC210LC-5K PC240NLC-5K PC240LC-5K PW170-5K PC180LC-5K

Perkins

Power Units - (YB30127)

Fg-Wilson

XP110E

CLAAS

Dominator 88 - Combine Dominator 98 - Combine

PERKINS 1006.60T YG, YH, YK, YJ BUILDS

EQUIPMENT MODELS

Massey Ferguson

6180 - (YH31310)	4270	4360	4370	6170	6180
8120	6260	6270	6280	6290	8110
	8210	8220	8240		

Tovel

TS18-44

Hyster

H165-360XL - (YG70403)	H165-360XL - (YH70393)

Mc Cormick-Tractors

MTX110 - (YH50918)	MTX125 - (YH50919)	MTX140 - (YH50920)	MTX155 - (YK50921)	MTX170 - (YJ51192)

PERKINS 1103C (DC) (DF) (DJ) (XK) BUILDS

EQUIPMENT MODELS

Fg Wilson

P24P2S	P26-1S	P26-2S	P26E1S	P27P1	XP24P1S
XP26E1S	XP27P1	P30E1	P30E2	P30P1	P30P2
P33-1	P33-2	P33E1	P33E2	XP30E1	XP30P1
XP33E1					

Mpmc-Powertech

MP30-1	MP30-2	MP30S-1	MP30S-2

Teksan

TJ39PE6A	TJ39PE6S

Godlike

GDP30*S - Genset

Massey Ferguson

410 - (DC38077)	431 - (DC38027)

Genmac

Alpha
G30PO

RCG Power

R-P30

Kz-Power

KZP-G33

PERKINS 1103C (DC) (XK) BUILDS

EQUIPMENT MODELS

Fg Wilson

P24P2S
P26-1S
P26-2S
P26E1S
P27P1
XP24P1S
XP26E1S
XP27P1
P30E1
P30E2
P30P1
P30P2
P33-1
P33-2
P33E1
P33E2
XP30E1
XP30P1
XP33E1

Godlike

GDP30*S - Genset

PERKINS 1103C-33T (DD), 1103A-33 (DK)

EQUIPMENT MODELS

Fg Wilson

P32P2S	P32P3S	XP32P3S	P35-1S	P35-2S	P35E2S
P35E3S	P40P1S	P40P2	P40P3	P44E1S	P44E2
P44E3	P45P2	P45P3	P45P3S	P50-1	P50-1S
P50-2	P50E2	P50E3	P50E3S	P50P1	P55-1
P55E1	P60P3	P65-1	P65E3	XP35E3S	XP40P1S
XP40P3	XP44E1S	XP45P3	XP44E3	XP45P3S	XP50E3
XP50E3S	XP50P1	XP55E1	XP60P3	XP65E3	

Kz-Power

KZP-G50	KZP-G66

Dingxin

DP40S	DP52S

Genmac

Alpha G45PO*	Alpha G60PO*	Strong G45PS	Strong G60PS	King G60PS*

Mpmc-Powertech

MP45-1	MP45S-1	MP47-2	MP47S-2	MP55-2	MP55S-2
MP60-1	MP60S-1				

Rcg-Power

R-P45	R-P60

Teksan

TJ61PE6A	TJ76PE6A	TJ60PE6S	TJ76PE6S

Godlike-Gensets

GDP30*S	GDP45*S	GDP60*S

PERKINS 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR) 3

EQUIPMENT MODELS

Build List

RE38059

Massey Ferguson

3435S - (RE37990)	3435F - (RE37990)	3435V - (RE37990)	3435GE - (RE37990)	3435GEV - (RE37990)	573 - (RE60126)
3425C - (RE38157)	471 - (RE38157)	481 - (RE37830)	5425 - (RE37873)	5425 - (RE37917)	5435 - (RE37831)
5435 - (RE37919)					

Jcb

Telehandler - (RE51141)

Marine Power Systems

4.4GM

Gehl

7610 - Skid Steer	7710 - Skid Steer

KIOTI

DK751 - Tractor	DK752 - Tractor

Noble (Liftking)

RC60 - Forklift	RT50 - Forklift	RT60 - Forklift	RT80 - Forklift

Asv Posi-Track

RC-85 - Comp Track Loader

PERKINS 1104C-44T (RG), (RH), (RK), (RS), (RT) BUILDS

EQUIPMENT MODELS

Engine Arrangement

RT60118	RT60119	RT60119B	RG38100 - (U220361)	Genset - (RG51247)	Sprayers - (RT)

Asv Posi-Track

RC-100 - Multi terrain loader	PT-100 - Multi terrain loader

Mpmc-Powertech

MP80-1	MP100-1	MP100-2	MP100S-1	MP100S-2

Godlike

GDP60*S	GDP65*S	GDP80*S

Perkins-Sabre

44TW2GM - (RJ30890)

FG Wilson

P40P2S	P45P2S	P50-2S	P50E2S	P50P2	P55-2
P55E2	P58P2S	P60P2	P64E2S	P65-2	P65E2
P72P2S	P80-2S	P80E2S	P80P2	P88-2	P88E2
P100P1	P100P2	P110-2	P110E1	P110E2	

Kz-Power

KZP-G72	KZP-G88

Dingxin

DP88S

Rcg-Power

R-P80-1	R-P100

Bobcat

V723 - Forklift	V518 - Telehandler

Marine-Power-Systems

4.4TGM

PERKINS 1104C-44T (RG), (RJ), (RK) BUILDS

EQUIPMENT MODELS

Telehandler - (RG38084)	Tractors - (RG38397)	JCB - (RG51136)

Marine Power Systems

4.4TGM	4.4TWGM	4.4TW2GM

Godlike

GDP60*S	GDP80*S	GDP100*S

Kz-Power

KZP-G110

Fg Wilson

P40P2S	P45P2S	P50-2S	P50E2S	P50P2	P55-2
P55E2	P58P2S	P60P2	P64E2S	P65-2	P65E2
P72P2S	P80-2S	P80E2S	P80P2	P88-2	P88E2
P100P1	P100P2	P110-2	P110E1	P110E2	

Teksan

TJ130PE6A	TJ128PE6S

Asv-Posi-Track

RC-100 - Comp Track Loader	PT-100 - Comp Track Loader

PERKINS 1104C-44T (RG), 1104C-E44T (RH)

EQUIPMENT MODELS

Massey Ferguson

3455 - (RG37989)	3455F - (RG37989)	3455GE - (RG37989)	3455GEV - (RG37989)	3455S - (RG37991)	3455SF - (RG37991)
3455SGE - (RG37991)	3455SGEV - (RG37991)	491 - (RG37828)	492 - (RG37829)	493 - (RG38179)	5435T - (RG38401)
		5435T - (RG38402)	5445 - (RG37832)	5445 - (RG37915)	5445 - (RG38120)
5445 - (RG38121)	5460 - (RG37833)	5460 - (RG51400)	6445 - (RG37832)	6445 - (RG37915)	6445 - (RG38120)
6445 - (RG38121)					

Fg Wilson

P40P2S	P45P2S	P50-2S	P50E2S	P50P2	P55-2
P55E2	P58P2S	P60P2	P64E2S	P65-2	P65E2
P72P2S	P80-2S	P80E2S	P80P2	P88-2	P88E2
P100P1	P100P2	P110-2	P110E1	P110E2	

Godlike

GDP60*S - Genset

KIOTI

DK1002 - Tractor	DK801 - Tractor	DK901 - Tractor	DK902 - Tractor	DX100 - Tractor	DX7510 - Tractor
DX9010 - Tractor					

Asv Posi-Track

RC-100 - Comp Track Loader	PT-100 - Comp Track Loader

Gehl-Mfg

7810 - Skid Steer

Terex

PT-100G - Comp Track Loader

Marine-Power-Systems

4.4TGM

PERKINS 1104A-44T (RS) 2

EQUIPMENT MODELS

Kz-Power

KZP-G72 KZP-G88

Dingxin

DP70S - Genset

Mpmc-Powertech

MP65-1 MP65-1 MP65S-1 MP65S-2 MP80-1 MP80-2 MP80S-1 MP80S-2

Godlike

GDP65*S - Genset GDP80*S - Genset

Olympian

GEP44SP1 GEP50-2 GEP50SP-7 GEP50SP11 GEP64SP1 GEP65-7 GEP65-11 GEP88-1

Genmac

BETA KING G80PO G80PS*

Rcg-Power

R-P65 R-P80

Teksan

TJ103PE6A TJ102PE6S

PERKINS 1104A-44T (RS)

EQUIPMENT MODELS

Engine Arrangement

RT38788	RT38788B	Gensets - RS	Sprayers - RT

Kz-Power

KZP-G72	KZP-G88

Godlike

GDP65*S - Genset	GDP80*S - Genset

Fg Wilson

P50-3S	P58P1S	P64E1S	XP58P1S	XP64E1S	P65-3
P80P1	P88-1	P88E1	XP88E1		

Olympian

GEP44SP1	GEP50-2	GEP50SP-7	GEP50SP11	GEP64SP1	GEP65-7
GEP65-11	GEP88-1				

PERKINS 1104D-44T (NL), 1104D-44TA (NM)

EQUIPMENT MODELS

Aksa

APD-EPA56	APD-EPAP56	APD-EPA56S	APD-EPAP56S	AT56	APD-ULP56

KIOTI

DK75 - Tractor	DK90 - Tractor	PX9020 - Tractor

HAULOTTE

HTL3210 - Telehandler	HTL4010 - Telehandler

Manitex-Liftking

2200-15D	842-GReach	ARM6T36-E	LK10M22	LK10M42	LK12M22
			LK12M42	LK16M22	LK16M42
LK20M22	LK20M42	LK20P22	LK20P44	LK25P44	LK8M22
LK8M42	LK8P44-B				

PERKINS 1104D-E44T (NH), 1104D-E44TA (NJ) 0060

EQUIPMENT MODELS

Aksa

APD-EPAP56	APD-EPAP56S	APD-EPA65S	APD-EPAP65	APD-EPAP82	APD-EPAP100
APD-EPAP65S	APD-EPAP100S	ADP-ULP65	ADP-ULP82	ADP-ULP100	AT65
AT82	AT100				

Grandwatt

G50XHD - Genset

Asphalt Pavers

Vogele Super 1600-2	Vogele Super 1603-2

Yanan

PE73-ER	PE73-ER-E	PE91-ER	PE91-ER-E

PERKINS 1106-E60TA VK BUILDS

EQUIPMENT MODELS

Mc Cormick-Wheeled Tractors

VK37779	VK37780	VK37781	VK37782	VK37783	VK37784
VK37785	VK37786	VK37787			

Loadlifter

4400-18F	4400-20F	ARM-XL 20T32-E	ARM-XL 20T42-E

Massey Ferguson

5465 - (VK31483)	5465 - (VK31486)	5465 - (VK31505)	6360 - (VK31483)	6370 - (VK31484)	6380 - (VK31485)
6465 - (VK31483)	6465 - (VK31486)	6465 - (VK31505)	6475 - (VK31484)	6475 - (VK31487)	6475 - (VK31503)
6475 - (VK31506)	6480 - (VK31485)	6480 - (VK31507)	7465 - (VK31486)	7465 - (VK31505)	7475 - (VK31487)
7475 - (VK31503)	7475 - (VK31506)	7480 - (VK31507)			

Manitou

LK30P44

Hyster

HD F.L.T Tier 2 Electronic - (VK37857)

PERKINS 1106-E60TA VK BUILDS FRACTURED SPLIT ROD

EQUIPMENT MODELS

Mc Cormick-Wheeled Tractors

VK37779
VK37780
VK37781
VK37782
VK37783
VK37784
VK37785
VK37786
VK37787

Massey Ferguson

5465 - (VK31483)
5465 - (VK31486)
5465 - (VK31505)
6360 - (VK31483)
6370 - (VK31484)
6380 - (VK31485)
6465 - (VK31483)
6465 - (VK31486)
6465 - (VK31505)
6475 - (VK31484)
6475 - (VK31487)
6475 - (VK31503)
6475 - (VK31506)
6480 - (VK31485)
6480 - (VK31507)
7465 - (VK31486)
7465 - (VK31505)
7475 - (VK31487)
7475 - (VK31503)
7475 - (VK31506)
7480 - (VK31507)

Load Lifter

4400-18F
4400-20F
ARM-XL-20T32-E
ARM-XL-20T42-E

Omega Lift

2430 HERC
2435 HERC 3
2440 HERC 4
2450 HERC 5
ARM-XL 30T28-E
2425 HERC

Manitou

LK30P44

Hyster

HD F.L.T Tier 2 Electronic - (VK37857)

PERKINS 1106A-70TG (PP), 1106A-70TA (PR)

EQUIPMENT MODELS

Build List

PP71370	PP82576	PP82576R	PP82928	PP82928B	PP82929B
PP82929R	PP83036	PP83036B	PP83036R	PP83061R	PP83097
PP83097R	PP83267B	PP83277R	PP71367	PR71369	PR81786R
PR82079R	PR82080R	PR82148	PR82148R	PR82164B	PR82164R
PR82165B	PR82165R	PR82216	PR82216R	PR82217	PR82217B
PR82217R	PR82218	PR82218R	PR82236	PR82236R	PR82249B
PR82249R	PR82250R	PR82418	PR82443R	PR82602	PR82602R
PR82603R	PR83010R	PR83098	PR83099	PR83100	PR83163
PR83163B	PR83163R	PR83164	PR83164R	PR83165B	PR83166B
PR83166R	PR83167B	PR83167R	PR83168B	PR83236R	PR83310
PR83310B	PR83310R	PR83312	PR83312R	PR83323R	PR83376B
PR83377B	PR83404R	PR83518R	PR83526R	PR83529R	PR83530R
PR83546R	PR83659R				

PERKINS 1106D-E70TTA (PW)

EQUIPMENT MODELS

Build List

PW82436R	PW82512R	PW82513R	PW82772R	PW82773R	PW82774R
PW82775R	PW82781R	PW82786R	PW82788R	PW82789R	PW82790R
PW82791R	PW82792R	PW82793R	PW82794R	PW82795R	PW82796R
PW82798R	PW82799R	PW82882R	PW82912R	PW82920R	PW82921R
PW82922R	PW82923R	PW82924R	PW82925R	PW82926R	PW83055B
PW83055R	PW83057B	PW83057R	PW83058B	PW83058R	PW83059B
PW83059R	PW83083R	PW83084R	PW83085R	PW83089R	PW83090R
PW83091R	PW83180R	PW83181R	PW83184R	PW83187R	PW83191R
PW83200R	PW83201R	PW83228R	PW83247R	PW83264R	PW83291R
PW83295R	PW83346R	PW83348R	PW83364R	PW83367R	PW83414R
PW83417R	PW83491R	PW83531R	PW83534R	PW83535R	PW83547R
PW83552R	PW83553R	PW83674R	PW83679R	PW83756	PW83783
PW83784	PW83785	PW83786	PW83787	PW83795	PW83805
PW83838	PW83839	PW83841			

PERKINS 1106D-E70TTA (PW)

EQUIPMENT MODELS

Build List

PW82436R	PW82512R	PW82513R	PW82727R	PW82773R	PW82786R
PW82788R	PW82789R	PW82790R	PW82791R	PW82912R	PW82923R
PW83063R	PW83083R	PW83084R	PW83085R	PW83200R	PW83201R
PW83228R	PW83247R	PW83291R	PW83346R	PW83491R	PW83547R
PW83756R	PW83783R	PW83784R			

PERKINS 1206E-E70TTA (BL)

EQUIPMENT MODELS

Build List

BL51550	BL51551	BL51554	BL51562	BL51566	BL51568
BL51569	BL51570	BL51571	BL51572	BL51573	BL51574
BL51604	BL51605	BL51607	BL51667	BL51720	BL51736
BL51737	BL51839	BL81752	BL82245	BL82257	BL82372
BL82577	BL83365	BL51871			

PERKINS 1204E-E44TA (MK)

EQUIPMENT MODELS

Build List

MK51619	MK51641	MK51642	MK51643	MK51722	MK51767
MK81829	MK81840	MK81841	MK82070	MK82071	MK82180
MK82203	MK82220	MK82221	MK82222	MK82298	MK82302
MK82498	MK82563	MK82682	MK82687	MK82688	MK82696
MK82700	MK82750	MK82752	MK82753	MK82803	MK82949
MK82969	MK82973	MK82975	MK82976	MK83020	MK83022
MK83024	MK83037	MK83048	MK83162	MK83179	MK83193
MK83195	MK83196	MK83197	MK83204	MK83217	MK83223
MK83262	MK83378	MK83379	MK83444	MK83464	MK83525
MK83685	MK83686	MK83687	MK83688		

Bobard Jeune

1074	1084

Farmtrac

7100 DT

Irum

Skidder 2012	Skidder 2012 G	Skidder 2012 Powershift

Bourgoin

BD 844/864/884/894

Genie

GTH-1056	GTH-1256	GTH-1544

Noremat

CS2 121	CS3 222	CS4 222	CS4 233	CS4 233-C

Pellenc

Buggy Maxi 5000	Optimum 530	Optimum 550	Optimum 670	Optimum 690	Optimum 750
Straddle Tractor 330					

PERKINS 1204E-E44TA (MK,ML), 1204F-E44TTA (MU,MW)

EQUIPMENT MODELS

Build List

MK51644	MK51645	MK51648	MK51649	MK51716	MK51732
MK51747	MK51748	MK51764	MK51784	MK51872	MK70688
MK70881	MK70882	MK81839	MK81847	MK81855	MK82200
MK82203	MK82220	MK82221	MK82238	MK82289	MK82300
MK82301	MK82365	MK82419	MK82428	MK82499	MK82548
MK82556	MK82656	MK82682	MK82687	MK82688	MK82689
MK82753	MK82949	MK82973	MK82975	MK83020	MK83022
MK83024	MK83037	MK83162	MK83193	MK83197	MK83204
MK83217	MK83262	MK83378	MK83379	MK83528	MK83685
MK83687	MK83688	ML51618	ML51650	ML51651	ML51668
ML51721	ML51725	ML51749	ML51766	ML51807	ML51895
ML51991	ML71087	ML81854	ML82413	ML82420	ML82592
ML82655	ML82708	ML82971	ML82972	ML82980	ML83021
ML83025	ML83044	ML83047	ML83073	ML83081	ML83086
ML83152	ML83174	ML83178	ML83198	ML83216	ML83224
ML83227	ML83235	ML83261	ML83265	ML83337	ML83342
ML83366	ML83416	ML83962	MU51854	MU51923	MU82589
MU82609	MU82698	MU82979	MU83519	MU83606	MW71396
MW83486					

PERKINS 4.236 TO ESN U106654N

EQUIPMENT MODELS

Bobcat

943 - Skid Steer LD70177	953 - Skid Steer LD70177	970 - Skid Steer LD70095	974 - Skid Steer LD70095

Jcb

3CX - Backhoe (LD50096)	410 - Loader (LD50105)	520 - Handler (LD50103)

Landini Tractors

6500 - (LD22573)	6550 - (LD22573)	6830	7500 - (LD22574)	7550 - (LD22574)	7830

Mf Agricultural

175 - (LD20022)	255 - (LD22694)	255 - (LD22695)	275 - (LD22051)	275 - (LD22052)

Mf Industrial

50C - (LD22824)	6000 - Forklift (LD22055)

PERKINS 4.236 FROM ESN U106655N

EQUIPMENT MODELS

Bobcat

943 - Skid Steer | 953 - Skid Steer | 970 - Skid Steer | 974 - Skid Steer

Jcb

3CX - Backhoe (LD50096) | 410 - Loader (LD50105) | 520 - Handler (LD50103)

Landini Tractors

6500 - (LD22573) | 6550 - (LD22573) | 6830 | 7500 - (LD22574) | 7550 - (LD22574) | 7830

Mf Agricultural

175 - (LD20022) | 255 - (LD22694) | 255 - (LD22695) | 275 - (LD22051) | 275 - (LD22052) | 362 - (LD31234)

MF Industrial

50C - (LD22824)

PERKINS 4.236 TO ESN U106654N 2

EQUIPMENT MODELS

Bobcat

943 - Skid Steer (LD70177)
953 - Skid Steer (LD70177)
970 - Skid Steer (LD70095)
974 - Skid Steer (LD70095)

Hyster

C300-530 - Compactor (LD70119)
H110-150 - (LD70121)
Z90B - (LD70118)
S60-100 - (LD70115)
S120-150 - (LD70116)
P60-80 - (LD70117)
A66 - (LD70118)

Lincoln-Electric

500 - Amp Welder (LD70147)

Clark Equipment

CY60-70-80B - (LD21386)
Tow Tractor - (LD21324)
CY60-70-80B - (LD21386R)

Towmotor

V100 - (LD22043)
V100 - (LD22044)
V120 - (LD22043)
V120 - (LD22044)
V140 - (LD22043)
V140 - (LD22044)

Sullair-Corp

185-250 - Compressor (LD70147)

Allis-Chalmers

715B - Loader (LD22682)

PERKINS 4.236 FROM ESN U106655N 2

EQUIPMENT MODELS

Build List

LD70160 LD70192 LD22151 LD33776 LD22580 LD21359 LD22784 LD30830 LD70323 LD70093

Clark Equipment

CY60-70-80B - (LD21386) Tow Tractor - (LD21324)

Towmotor

V100 - (LD22043) V100 - (LD22044) V120 - (LD22043) V120 - (LD22044) V140 - (LD22043) V140 - (LD22044)

Lincoln-Electric

500 - Amp Welder (LD70147)

Allis Chalmers

715B - (LD22682)

Bobcat

943 - Skid Steer 953 - Skid Steer 970 - Skid Steer 974 - Skid Steer

Hyster

C300-530 - Compactor (LD70119) H110-150E - (LD70121) S60-100 - (LD70115) H110-150F - (LD21100R)

Sullair-Corp

185-250 - Compressor (LD70147)

Caterpillar

6-8000 lb - Forklift

PERKINS 4.248 FROM ESN UA123424L

EQUIPMENT MODELS

Build List

LF22790	LF31105	LF31189	LF31275	LF31288	LF22575
LF22762	LF31176	LF31177	LF31204	LF31141	LF31186
LF31235	LF31249	LF31152	LF31130	LF31164	LF31203

Mf Agricultural

50EX - Wheel Tractors	50HX - Wheel Tractors	60H - Wheel Tractors	194 - (LF22762)	194F - Tractor	275 - (LF22312)
275 - (LF22313)	283 - Tractor	285 - (LF22471)	290 - (LF22790)	294 - Tractor	383 - Tractor
390 - Tractor	394S - Tractor	590 - (LF22486)	3055 - Tractor	3060 - Tractor	

MF Industrial

50H

Landini-Tractors

R8500 - (LF22575)

CATERPILLAR 3013C (C1.5)

EQUIPMENT MODELS

ESN

313 C5N E1M G3P G7N

Engine Arrangement

214-4665 230-9551 216-6387 230-9552 225-0574 234-1828
225-0576 241-8612 225-0579 242-3134 225-0583 242-3139
225-0584 242-3140 225-0595 242-6041 225-0604 242-6048
226-8701 257-8333 228-0879 264-4473 168-3312 293-2055

Olympian

GEP7.5SP2 GEP13.5-2 GEP9.5-2 GEP13.5-4 GEP11-6SP6 GEP13.5-6 GEP11.5SP-2
GEPH17SP GEP11SP-2 GEPK22-2 GEP11SP-4

Vibratory Compactors

CB214E CB235E CB224E CB334E CB225E CB335E
CB234E CB-22

Caterpillar

303.5 - Mini Hydraulic Excavator

Allmand

MH500IQ

CATERPILLAR 3024/C

EQUIPMENT MODELS

ESN

E2M1-UP 4RF GGA05643

Compact Track Loaders

RC-50

Olympian

GEP14-6SP6 GEP22-2 GEP14SP-2 GEP22-4 GEP14SP4 GEP22-6
GEP16.5-6SP6 GEPH24SP GEP16SP-2 GEPH28SP GEP16SP-4 GEPH30-2
GEP18-2 GEPH35-2 GEP18-4

Skid Steer

216B 232B 216B2 232B2 216B3 232 CAB-ON
226B 242B 226B2 242 CMB-ON 226B3 902 7ES-ON

Wheel Loaders

902

Engine Arrangement

139-9583 168-3313 177-3269 183-1335 177-3272 196-8763
177-3273 197-7203 177-3274 199-2653 177-3275 199-9054
177-3278 213-3185 177-3287 214-2362 177-3297 216-6386
177-3298 225-0581 177-3306 226-8709 179-1808 230-9521
266-4535

Miller Electric

BIG 40 C Arc Welder BIG 40 CAT Arc Welder BIG 40 CX Arc Welder
BIG 40 WG Arc Welder

CATERPILLAR 3024C/T

EQUIPMENT MODELS

ESN

E6K1-UP GGA1-UP CSD1-UP

Skid Steer

216B	242B	216B2	242B2	216B3	242 CMB-ON
226B	247B	226B2	247B2	232B	257B2
232B2	232 CAB-ON				

Compact Track Loaders

RC-60

Miller Electric

BIG 40 C	Arc Welder	BIG 40 CAT	Arc Welder	BIG 40 CX	Arc Welder
BIG 40 WG	Arc Welder				

Engine Arrangement

224-5881 230-0823 233-6648 300-5206

Princeton

D45 - Piggyback Forklift	PB50 - Piggyback Forklift	PB65 - Piggyback Forklift	PB70 - Piggyback Forklift	PBX - Piggyback Forklift

CATERPILLAR 3034C NATURALLY ASPIRATED

EQUIPMENT MODELS

Engine Arrangement

144-6194 159-9213 147-1232 163-0248 147-1233 224-7498

Multi Terrain Loader

247 267 257 277

Wheel Loaders

906

Skid Steer

216 242 226 246 228 248
232 252 236 262

CATERPILLAR 3044CT TURBOCHARGED

EQUIPMENT MODELS

ESN

CJS1-UP	CJS1-38908	CJS1-70000	CJS61913-UP

Engine Arrangement

179-1853	234-2196	179-1854	234-2197	179-1858	262-7288
234-2190	262-7289	234-2192	305-5286	234-2195	308-9664
262-7290	218-6850				

Skid Steer

236B	262C	236B2	267B	246B	268B
246C	272C	248B	277B	252B	277C
252B2	287C	256C	297C	262B	

Wheel Loaders

906	908	906H	908H	907H

CATERPILLAR 3044C/T TURBOCHARGED

EQUIPMENT MODELS

ESN

CJS1-UP CYM1-UP

Engine Arrangement

287-8074 319-6806 305-2572 389-9244

C3.4 Engine Arrangement

294-4464 350-6970 294-4465 388-1871 294-4467 388-1874
294-4468 390-5141 294-4469 390-5147 311-1332 392-5661
321-7700 431-1752

Compact Track Loaders

279C 277C 289C 287C

Skid Steer

256C 262C

Wheel Loaders

908H

CATERPILLAR 3046 NATURALLY ASPIRATED

EQUIPMENT MODELS

ESN

5XK1-UP	5XK10800-UP	5XK12250-UP

Track Loader Power Shift

933	933 LGP

Tractor Power Shift

D3C XL	D4C XL	D4C LGP	D4C LGP XL

Engine Arrangement

6I-3535	115-4841	6I-3536	137-7383	107-2350	148-8215
115-4840	148-8216				

Hystat Track Loader

933C	933C LGP

Hystat Tractor

D3C LGP	D3C XL	D4C XL

CATERPILLAR 3046 NATURALLY ASPIRATED

EQUIPMENT MODELS

ESN

5XK1-UP	5XK10800-UP	5XK109-UP	5XK12250-UP	5XK30700-UP

Engine Arrangement

149-8742	174-5996	149-8743	174-5997	149-8745	189-4295
149-8746	214-5157	149-8748	214-5158		

Caterpillar

933 - Track Loaders Power Shift	933 LGP - Track Loaders Power Shift	933C - Hystat Track Loader	933C LGP - Hystat Track Loader	D3C - XL Series III Hystat Tractors	D3C LGP - XL Series Hystat
D3G LGP - Track Type Tractors	D3C XL - Series III Tractors Power Shift	D3G XL - Track Type Tractors	D4C XL - Series III Hystat Tractors	D4G XL - Track Type Tractors	D4G LGP - Track Type Tractors
D5G LGP - Track Type Tractors	D5G XL - Track Type Tractors				

CATERPILLAR 3046 TURBOCHARGED

EQUIPMENT MODELS

ESN

5XK1-UP	5XK10800-UP	5XK12250-UP

Engine Arrangement

6I-3537	117-1896	105-1997	148-8217	110-4741	149-4607
115-4842	170-4053	115-4843			

Caterpillar

315 - Track-Type Excavators	315B - Track-Type Excavators	315B L - Track-Type Excavators	315L - Track-Type Excavators	939 - Track Loader Power Shift	939C - Track Loader Power Shift
D3C LGP - XL Series Hystat Tractors	D3C XL - Series III Tractors Power Shift	D4C XL - Series III Tractors	D5C LGP XL - Series III Tractors Power Shift	D5C XL - Series III Tractors Power Shift	D5C XL - Series III Hystat Tractors

CATERPILLAR 3046 TURBOCHARGED

EQUIPMENT MODELS

ESN

5XK10800-UP	5XK12250-UP	5XK15489-UP	5XK15503-UP	5XK30700-UP

Engine Arrangement

137-6382	149-8749	149-8744	174-5998	149-8747	189-4296

Caterpillar

315 - Track-Type Excavator	315B - Forest Machine	315BL - Track-Type Excavator	315L - Track-Type Excavator	939C - Track Loader	D5C - Series III Tractor Direct Drive Power Shift
D5C LGP, XL - Series III Hystat Tractor	D5C XL - Series III Hystat Tractors	D5G LGP - Track-Type Tractor	D5G XL - Track-Type Tractor		

CATERPILLAR 3054 ESN 6FK1-UP

EQUIPMENT MODELS

ESN

6FK1-UP

Caterpillar

554 -
Forwarder

Telehandlers

TH62

Engine Arrangement

6I-2215 100-4276 6I-2220 106-5001 7E-7702 108-0495
115-1697 103-8795

Backhoe Loaders

416B 428B 416C 428C

Hydraulic Excavators

307

Olympian

GEP30SP-3 GEP44-3 GEP35SP-3 GEP50-3 GEP40SP-3

Vibratory Compactors

CB434B CB434D

CATERPILLAR 3054T ESN 6FK1-UP

EQUIPMENT MODELS

ESN

6FK1-UP

Caterpillar

PS200B - Pneumatic Roller
PS360B - Pneumatic Roller

Backhoe Loaders

416B 426C 416C 428B 426B 428C

Hydraulic Excavators

317 M312 317N M315

Engine Arrangement

6I-2216 106-5001 6I-2221 106-5002 7E-9558 107-9664
7E-9559 108-0496 108-2783 105-7971 115-1697 153-5364
100-8184 118-2942 103-8800

CATERPILLAR 3054 ESN 5YS1-13498

EQUIPMENT MODELS

ESN

5YS1-13498

Backhoe Loaders

416D 428C 420D 428D 426C

Caterpillar

554 - Forwarder

Hydraulic Excavators

M312 312L 312B 315B

Telehandlers

TH63 TH103 TH82 TH350B TH83

Vibratory Compactors

AP600	CS323C	AP650B	CS323E	AP655C	CS423E
AP800C	CS431C	AP800D	CS433C	CB434C	CS433E
CB434D	CS533E	CB534B	CS563E	CB534C	CS573E
CB534D	CS583E	CB535B	CS663E	CB544	CS683E
CB545	PF290B	CB564D	PF300C	CP323C	PF300B
CP323E	PS150B	CP433C	PS150C	CP433E	PS200B
CP533E	PS300C	CP563E	PS360B	CP573E	PS360C
CP583E	CP663E				

Wheel Loaders

908

Engine Arrangement

187-1696	186-0601	187-8014	122-8803	122-8804	188-0883
122-8805	189-6184	130-4666	204-5369	130-4799	204-5371
130-4800	204-5372	130-6340	212-3603	130-6342	220-5713
130-6343	221-8141	139-9582	222-3717	158-6066	223-5544
162-9785	224-4011	163-0555	231-6116	163-0949	234-1969
163-1652	235-0598	238-6808	165-7604		

CATERPILLAR 3054 ESN 5YS13499-UP

EQUIPMENT MODELS

ESN

5YS13499-UP

Backhoe Loaders

416D 426C 420D 428D

Caterpillar

554 - Forwarder

Hydraulic Excavators

312B 315B 312L

Telehandlers

TH63 TH103 TH82 TH350B TH83

Vibratory Compactors

CB434C	CS573E	CB434D	CP573E	CB534B	CS583E
CB534C	CP583E	CB534D	CS663E	CB535B	CP663E
CB544	CS683E	CB545	PF300C	CB564D	PS300C
CP323C	PF290B	CS323E	PF300B	CP323E	PS150B
CS423E	PS150C	CS431C	PS200B	CS433C	PS360B
CP323C	PS360C	CS533E	AP600	CP533E	AP650B
CS433C	AP655C	CP433C	AP800C	CS433E	AP800D
CP433E	CS323C	CS563E		CP563E	

Wheel Loaders

908

Engine Arrangement

158-6066	107-3778	178-9011	187-8014	122-8804	233-6273
122-8805	188-0883	130-4666	189-6184	130-4799	204-5369
130-4800	204-5371	130-6340	204-5372	130-6342	212-3603
139-4666	139-9582				

CATERPILLAR 3054C/E ESN 3341-UP

EQUIPMENT MODELS

ESN

3341-UP

Eco Log

554B - Forwarder

Compact Track Loaders

RC-85

Telehandlers

TH210 TH215

Engine Arrangement

176-3163	207-1080	207-1173	219-7588	219-7589	207-1104
230-3483	207-1108	230-5540	207-1126	241-8593	207-1149
241-8594	207-1151	241-8596	207-1159	244-3104	207-1170
257-8360	207-1171	257-8370			

CATERPILLAR 3054C/E ESN CRS1-UP

EQUIPMENT MODELS

ESN

CRS1-UP G4D1-UP D1K E4M

Caterpillar

CP323C

Olympian

GEP44-7 GEP44-9

Backhoe Loaders

416D 424D

Eco Log

554B - Forwarder

Engine Arrangement

176-3163	291-0357	234-3058	292-7768	297-4050	245-6841
309-0731	266-4538	322-1922	266-4539	329-9929	273-0872

CATERPILLAR 3054C/E ESN 3341-UP 3

EQUIPMENT MODELS

ESN

3341-UP

Caterpillar

PS150C - Pneumatic Roller
PS300C - Pneumatic Roller
PS360C - Pneumatic Roller

Backhoe Loaders

416E 428D 422E 428E

Compact Track Loaders

RC-100

Eco Log

554B - Forwarder

Hydraulic Excavators

M313C 315C 313C 315L

Olympian

GEP44SP2 GEP80SP2 GEP50SP2 GEP80SP4 GEP50SP4 GEP88-2
GEP55-2 GEP88-3 GEP55-4 GEP88-4 GEP64SP2 GEP110-1
GEP65-2 GEP110-2 GEP65-4 GEP110-4

Telehandlers

TH460B TH580B TH560B

Wheel Loaders

IT14G M313C

Engine Arrangement

176-3172 234-3059 176-3180 234-3061 177-9752 241-8582
241-8584 179-1795 241-8585 188-5099 241-8586 188-5100
244-3103 194-9477 244-3105 207-1175 256-4720 213-0296
257-8359 219-7590 257-8362 219-7591 257-8364 223-6467
257-8369 223-6511 257-8374 223-7570 257-8375 227-4805
257-8376 257-8380 231-0178 257-8381 231-0179 270-0073
231-0180 307-2279 231-0181 318-5435 231-0182 318-5436
231-0183 319-2121 231-0184 320-8414 231-0186 323-5725
232-4502 323-6954 304-1647 297-4055

CATERPILLAR 3054C/E ESN 3341-UP 4

EQUIPMENT MODELS

ESN

3341-UP

Caterpillar

PS150C - Pneumatic Roller
PS300C - Pneumatic Roller
PS360C - Pneumatic Roller

Compact Track Loaders

RC-100

Eco Log

554B - Forwarder

Olympian

GEP44SP2
GEP55-2
GEP65-2
GEP80SP2
GEP88-3
GEP110-2
GEP50SP2
GEP55-4
GEP65-4
GEP80SP4
GEP88-4
GEP110-4
GEP50SP4
GEP64SP2
GEP88-2
GEP110-1

Engine Arrangement

207-1097
207-1100
207-1098
207-1103
207-1099

CATERPILLAR 3054C/E ESN CRX107-UP

EQUIPMENT MODELS

ESN

BLN FDP 304 E4M G4D J1Z CRS

Backhoe Loaders

414E 428D 416E 428E 420D 430E

Caterpillar

PS150C - Pneumatic Roller
PS300C - Pneumatic Roller
PS360C - Pneumatic Roller
CS-433E - Vibratory Compactor

Compact Track Loaders

PT100

Eco Log

554B - Forwarder

Olympian

GEP44SP2 GEP80SP2 GEP50SP2 GEP80SP4 GEP50SP4 GEP88-2
GEP55-2 GEP88-3 GEP55-4 GEP88-4 GEP64SP2 GEP110-1
GEP65-2 GEP110-2 GEP65-4 GEP110-4

Telehandlers

TH220B TH330B

Engine Arrangement

176-3180 273-3610 194-9477 273-3611 207-1082 286-2370
227-1368 291-0358 234-3060 291-0359 234-3061 291-0360
245-6842 292-7769 266-4540 319-2122 266-4541 320-8414
266-4542 320-8415 266-4544 322-1923 272-2837 322-1924
272-2839 323-5725 272-2841 325-5121 273-1454 325-5122
173-3164

CATERPILLAR 3054C/E TURBOCHARGED

EQUIPMENT MODELS

ESN

CC2-UP C49-777 C4Z-UP CRS-UP

Engine Arrangement

352-1451 364-5753 571-4255

Backhoe Loaders

416F	416F	420F	420F2	422F	422F2
424	426F2	428F	430F	430F2	432F
432F2	434F	434F2	444F	444F2	

CATERPILLAR 3056 ESN 7MS1-2098

EQUIPMENT MODELS

ESN	Wheel Loaders
7MS1-UP	924G

Engine Arrangement

145-9235	204-5211	163-0101	205-8747	163-0870	206-7850
173-9705	208-5963	183-5132	218-4670	184-5444	223-1158
185-3600	234-9528	187-1338	236-6617	194-2050	239-6060
196-5004	138-7713				

CATERPILLAR 3056 ESN 7MS2099-UP

EQUIPMENT MODELS

ESN	Wheel Loaders
7MS2099-UP	924G

Engine Arrangement

163-0101	205-8747	163-0870	206-7850	173-9705	208-5963
183-5132	218-4670	184-5444	223-1158	185-3600	234-9528
187-1338	236-6617	194-2050	239-6060	196-5004	204-5211
138-7713					

CATERPILLAR 3056E ESN CPT1-843

EQUIPMENT MODELS

ESN

CPT1-843

Caterpillar

501 - Harvester
501HD - Harvester
IT28G - Integrated Tool Carrier

Asphalt Pavers

AP600 - Case
BB760 - Bitelli

Eco Log

564B - Forwarder
574B - Forwarder

Hydraulic Excavators

M316C
M318C
M322C

Wheel Loaders

930G

Vibratory Compactors

CS583E

Engine Arrangement

176-3165
188-5096
206-2745
207-1166
295-9745
302-0524
176-3166
188-5097
207-1121
254-2236
297-4053
302-0525
179-1797
188-5098
263-9665
297-4054

CATERPILLAR 3056E ESN CPT844-UP

EQUIPMENT MODELS

ESN

CPT844-UP

Caterpillar

501 - Harvester
501HD - Harvester
IT28G - Integrated Tool Carrier

Wheel Loaders

930G

Asphalt Pavers

AP600 - Case
BB760 - Bitelli

Eco Log

564B - Forwarder
574B - Forwarder

Hydraulic Excavators

M316C
M318C
M322C

Vibratory Compactors

CS583E

Engine Arrangement

176-3165
188-5096
206-2745
207-1166
295-9745
302-0524
176-3166
188-5097
207-1121
254-2236
297-4053
302-0525
179-1797
188-5098
263-9665
297-4054

CATERPILLAR 3066

EQUIPMENT MODELS

ESN

7JK1 - UP	AXK	BBL1 - UP	BCN1 - UP	BDE1 - UP	BEA1 - UP
BMZ	BTG	CXY	CYD	DBG1	EAG
EBY	EGA1	EGL1	GAD	GNG	GPA
JPL1	KCR	MAB1 - UP	MAC	MCF	PAB1 - UP
PBM	RAW1 - UP	SBN1 - UP	SDC		

Arrangement Number

222-8198	239-6530	201-3721	201-3878	201-3880	205-6695
205-6731	205-6743	217-5494	222-8277	239-6511	239-6563
239-6568	255-3065	272-4638	282-4707		

Machine Models

320C	320CL	320CLN	318CL	318CLN	321CLCR
323DL					

CATERPILLAR 3066

EQUIPMENT MODELS

ESN

7JK54000-UP	GPA1 - UP	BTG1 - UP	HKT1 - UP	CXY1 - UP	KGL1 - UP
DAH1 - UP	MAB1 - UP	DHK1 - UP	MAE1 - UP	EAG1 - UP	MDY1 - UP
EBY1 - UP	PAB1 - UP	FAA1 - UP	PAC1 - UP	FXK1 - UP	RAW1 - UP
GAD1 - UP	SAH1 - UP	GKL1 - UP	SBN1 - UP	GNG1 - UP	TBR1 - UP

Arrangement Number

201-3721	205-6695	287-0092	287-0093	287-0095	287-0097
287-0098	287-0099	287-0100	287-0101	287-0102	287-0103
287-0104	287-0105	305-4783	305-4858		

Excavators

318C	318CL	318CLN	319CLN	320C	320CL
320D	320DL	320DRR	320DLRR	320CU	320CLU
321CLCR	323D	323DL	323DLN		

CATERPILLAR C2.2 NATURALLY ASPIRATED

EQUIPMENT MODELS

Engine Arrangement

292-5718	425-7997	302-8138	433-1379	310-5634	435-1641
318-1708	454-4433	326-4001	489-4694	348-2243	489-4704
372-3410	507-0038	396-6293	507-0039	415-5549	521-6796
421-9194					

Caterpillar

1.4M - Small Track Paver	216B2 - Skid Steer	216B3 - Skid Steer	AP255E - Asphalt Paver	CB34 - Vibratory Compactor	CB34B - Vibratory Compactor
CB34XW - Vibratory Compactor	CB36B - Compactor	CC34 - Vibratory Compactor	CC34B - Compactor	DE18E3 - Genset	DE22E3 - Genset

CATERPILLAR C2.2 TURBOCHARGED-AFTERCOOLED

EQUIPMENT MODELS

Engine Arrangement

292-5719	425-7998	310-5635	433-1380	310-5636	435-1636
341-3007	435-1638	370-1526	454-4428	415-5550	454-4434
415-5551	456-4680	415-5552	465-7070	416-6044	521-6797
310-7852	425-3807				

Caterpillar

216B - Skid Steer Loader	226B - Skid Steer Loader	226B2 - Skid Steer Loader	226B3 - Skid Steer Loader	232B - Skid Steer Loader	232B2 - Skid Steer Loader
232D - Skid Steer Loader	239D - Compact Track Loader	242B - Skid Steer Loader	242B2 - Skid Steer Loader	247B - Multi Terrain Loader	247B2 - Multi Terrain Loader
247B3 - Multi Terrain Loader	249D - Compact Track Loader	257B - Multi Terrain Loader	257B2 - Multi Terrain Loader	C2.2 - Industrial Engine	CB34B - Compactor
CB34B XW - Compactor	CB36B - Compactor	CC34B - Compactor			

CATERPILLAR C2.2 CRT TIER 4

EQUIPMENT MODELS

Engine Arrangement

416-6035	416-6050	465-2306	479-8034	481-1908	481-7984
486-1806	487-3423	487-3424	491-3638	497-1084	502-2076
502-2102	503-9127	506-6220	511-8732	516-8113	516-8890
517-0151	522-5093	527-3160	527-7184	540-4919	541-7579
545-9958	551-1225	559-3201	562-3351	566-3205	570-5031
571-6618	572-6054	578-6852	580-1985	583-2581	583-4048
583-9168	584-4879	584-4977	603-8906	603-8923	610-1014
610-1016	611-3383	612-7812	627-2641		

Caterpillar

226D - Skid Steer Loader	226D3 - Skid Steer Loader	232D - Skid Steer Loader	232D3 - Skid Steer Loader	239D - Compact Track Loader	239D3 - Compact Track Loader
249D - Compact Track Loader	249D3 - Compact Track Loader				

CATERPILLAR C3.3T ESN E3J1-UP

EQUIPMENT MODELS

ESN

E3J1-UP

Olympian

GEP44-2	GEP50-7	GEP44-5	GEP50SP5	GEP35SP2	GEP50SP9
GEP35SP4	GEP55-1	GEP35SP5	GEP55-3	GEP35SP9	GEP65-5
GEP50-4	GEP65-9	GEP50-5			

Engine Arrangement

284-5163	284-5164

CATERPILLAR C3.3B, TIER 3/IT4

EQUIPMENT MODELS

Engine Arrangement

380-1768	380-1769	380-1770	380-1771	380-1772	380-1773
380-1774	380-1778	380-1779	380-1780	392-4117	392-4126
392-4133	416-6080	416-6085	416-6086	416-6087	449-0401
449-0402	450-3207	470-1079	549-2013	626-9945	

Asphalt Pavers

AP300	AP300F	AP355	AP355F

Excavators

308E	308E2	308E CR	308E SR	308.5	310

Skid Steers

236D	236D3	242D	242D3	262D	262D3

Track Loaders

257D	257D3	259D	277D	279D	279D3
287D	289D	289D3			

Wheel Loaders

906H2	906K	906M	907H2	907K	907M
908H2	908K	908M			

CATERPILLAR C3.3B, TIER 4

EQUIPMENT MODELS

Engine Arrangement

345-3550	392-4109	392-4110	416-6088	449-0400	450-3205
470-1087	514-7594	515-9513	540-6418	549-6803	550-9177
552-4046	561-8130				

Asphalt Pavers

AP300	AP300F	AP355	AP355F

Excavators

308 CR	308.5	308E2	308E2 CR	308E2 SR	309 CR

Skid Steers

236D	236D3	242D	242D3	246D	246D3
262D	262D3				

Track Loaders

257D	257D3	259D	259D3	277D	279D
279D3	287D	289D	289D3		

Wheel Loaders

906M	907M	908M

CATERPILLAR C4.2 TURBO

EQUIPMENT MODELS

Arrangement Number

272-4816	272-4817	279-7764	279-7766	279-7805	279-7806
279-7813	279-7814	420-2179	420-2181	420-2182	

Machine Serial Number

AYF	BZH	EAW	KFM	KRM	WBJ
BZN	CJN	JGS	JHA	KBD	NCM
TLE	ZKJ	BYJ	SBP	SSZ	WLN
TXN	CLA	DDW	DWR	PNJ	LKA
HJX	PHH	SKA	TGY	DLP	HCW
KES	KXD	LRK	WPK	XGK	

Engine Serial

JKH

Excavators

319D L	319D LN	319D	315D L	318D L	314D CR
314D LCR	311D LRR	312D	312D L	313D	

CATERPILLAR C4.4B ACERT – PISTON #361-2486

EQUIPMENT MODELS

EXCAVATOR

312E 312E L 314E 314E CR 314E LCR

BACKHOE

416F 420F 428F 432F 434F 444F

TRACTOR

D3K2 D3K2 LGP D4K2 D4K2 XL D5K2 D5K2 XL

GENERATOR

C4.4XQ80

Arrangement Number

340-1712	342-9318	342-9335	345-2883	345-2884	350-1740
351-4115	351-4260	369-1190	375-6353	375-7584	375-8239
375-8850	380-2585	383-2654	388-5901	391-4343	392-9393
396-4539	420-5857	421-7258	421-7259	421-7260	421-7261
421-7262	425-3331	447-1000	452-5854	454-4409	454-4412
454-4413	454-4414	456-5155	456-5157	457-8014	457-8015
457-8016	457-8017	457-8018	457-8019	457-8029	463-0916
463-1469	463-1472	463-8229	464-3362	464-3463	465-0287
465-6507	465-6508	466-7146	469-3383	469-7244	470-6446
471-2551	471-9956	472-2519	472-7117	472-8297	474-2645
474-2647	474-2657	474-2661	474-2663	475-3716	477-9053
479-1540	479-5995	479-6031	480-6206	480-7553	486-6714
486-6715	486-6718	487-6149	489-6325	490-1896	490-3041
494-4270	498-6394	505-0981	505-2063	541-4327	558-9418

Engine Serial

C7N

CATERPILLAR C4.4B ACERT – PISTON #360-3987

EQUIPMENT MODELS

Backhoe

416F2 420F2 428F2 430F 430F2 434F2
444F2 450F

Generator

C4.4XQ100

Excavator

316E L 318E L 320 320 GC 320F L 323F
323F LN 325F 325F LCR 559D 579D

Wheel Excavator

M314F M315F M316F M317F M323F

Paver

AP600F AP655F

Roller

CB10 CB13 CB15 CB16 CW-34 CB-54B
CP-54B CP-56B CP-68B CP-74B CS-54B CS-56B
CS-64B CS-66B CS-68B CS-74B CS-76B CS-78B

PipeLayer

PL61

Telehandler

TH336C TH337C TH406C TH407C TH414C TH417C
TH514C TL1055C TL1255C

Dozer

D3K2 LGP D3K2 XL D4 D4K2 XL D4K2 LGP D5K2 LGP
D5K2 XL D6K2 D6K2 LGP D6K2 XL

Soil Compactor

CP12 CP14 CP16

Arrangement Number

361-1269 363-9717 365-9906 366-7704 366-7766 371-4080
372-2960 372-2961 372-3531 372-3673 372-3733 375-4634
375-8994 375-9651 375-9655 375-9818 375-9867 376-1244
376-1306 376-1313 376-1349 380-2582 382-0788 382-6592
383-7357 383-7937 383-7963 384-6755 386-2759 388-5902
388-6271 389-8194 390-7460 391-1865 392-9394 396-4475
399-3774 399-5576 399-5693 417-3454 417-9289 417-9401
421-1056 422-3075 425-3419 426-3391 430-5687 431-0734
431-0735 431-4802 432-2643 434-1316 436-9828 438-1345
440-3604 441-9177 441-9674 441-9799 444-0698 444-8635
444-8682 445-2340 447-1090 448-0505 449-4395 450-1941
450-7413 451-1837 451-2272 452-0913 454-2955 454-4416
454-4420 454-4421 454-9912 455-3828 455-6291 455-9408
457-0347 457-2691 457-6390 458-0609 458-0612 458-2344
460-9530 461-1036 461-8863 462-0623 462-3918 462-8164
462-9054 464-3249 464-3854 464-8651 466-8430 466-9132
467-0379 467-0546 468-2640 469-1391 469-2193 469-2330
469-3198 469-3784 471-2531 471-7723 473-9407 474-2009
474-2650 474-2651 474-2655 474-2656 474-4163 474-4238
474-4323 474-7314 475-3447 475-3482 476-5136 477-2031
477-8023 477-8094 478-1540 478-2183 478-7054 479-5927
479-6533 482-7801 484-7291 485-8247 486-6716 487-1682
489-2325 489-6326 489-8185 490-3103 492-5767 493-8034
499-1570 499-3352 500-3849 501-8616 505-0682 508-8151
508-8842 511-4837 512-0428 512-8082 515-7422 520-9031
520-9034 525-8290 527-6739 527-8683 527-9768 528-1920
528-8683 532-8524 548-6811 550-4990 550-5038 553-4036
556-2957 556-2959 556-2959 561-6505 561-8330 563-0264
563-6170 564-1799 564-6395 575-2844 576-5255 578-4441
579-8046 580-8011 583-0202 585-1778 585-1779 585-1781
586-3065 588-4297 588-4299 591-3247 592-6226 598-5640
606-5902 606-5904 617-6762 619-0935 619-1484 619-1486
619-1509 619-1513 619-1524 619-1534 619-4601 622-8427
625-1340

CATERPILLAR C4.4T/TA

EQUIPMENT MODELS

ESN

AT31-UP C4Z1-777 C4Z1-UP C4Z778-UP E3L1-UP E3N1-UP

Engine Arrangement

321-7704	445-7653	321-7705	445-7657	322-0590	457-2054
354-7363	460-5760	362-9384	467-7946	364-5743	503-0968
375-1273	520-1413	375-1284	521-6422	383-7265	521-6433
391-6308	552-3344	398-1579	558-3582	417-2321	575-8544
315-8091	321-3042	556-7899	389-9238	386-1204	389-1317

Asphalt Pavers

AP300D

Backhoe Loaders

416E	432E	416F2	432F	420F	432F2
420F2	434E	422E	434F	426F2	434F2
428E	442E	428F	444E	428F2	444F
430F	444F2				

Gensets

D40 D50 D60 DE68E3 DE88E0 DE88E3
DE110E2 DE110E3 XQP60

Telehandlers

TH336C TH414C TH337C TH417C TH406C TH514C
TH407C

Wheel Loaders

910K 914K 920K

Hydraulic Excavators

312D2 313D2

Vibratory Compactors

CS10 CS11 CS12

Screen Machine

QA451

CATERPILLAR C4.4T/TA 9269

EQUIPMENT MODELS

Engine Arrangement

242-1329	254-9233	288-5219	288-5220	305-0478	307-0428
307-0438	308-5585	308-5590	313-1226	319-5615	362-9387
369-9302	378-4730	383-7321	383-7322	384-6683	386-6652
417-2322	435-1669	435-1677	435-1676		

Backhoe Loaders

420E 430E

Caterpillar

D3K XL D4K LGP D3K LGP D5K XL D4K XL D5K LGP

Telehandlers

TH336C TL943C

Gensets

DE65E3 DE110E2 DE88E0 DE110E3 DE88E3

Vibratory Compactors

CB44B CS54 CB54B CS54B CP44 CS64B
CS44 CW34

Wheel Loaders

914G2

CATERPILLAR C4.4T/TA 9905

EQUIPMENT MODELS

Engine Arrangement

242-1346	242-1347	254-0115	264-6804	285-3201	292-5304
298-5087	315-8099	355-5617	355-5618	362-9386	369-7852
369-7854	369-7856	380-3644	380-3645	381-7577	381-7578
383-7269	384-6680	384-6681	386-1206	391-8751	435-1671
435-1684	435-1685	435-1695	438-5085	438-5086	442-6157

Asphalt Pavers

AP500E AP555E BG500E BG555E

Gensets

D80 D100 DE65E3 DE110E2 DE88E0 DE110E3 DE88E3

Wheel Loaders

M313D M315D M315 D2 M317 D2

Backhoe Loaders

450E

Telehandlers

TL1055C TL1255C

Vibratory Compactors

CB54 CB64

Excavator

MS035

CATERPILLAR C6.4 TURBO

EQUIPMENT MODELS

Engine Serial Number

GDC1-UP

Machine Serial Number

GDC1-UP	A6F1-UP	A9F1-UP	BWW1-UP	BYM1-UP	BZF1-UP
CWG1-UP	CYZ1-UP	DCJ1-UP	DHE1-UP	EJT1-UP	FAL1-UP
GDP1-UP	GKS1-UP	GMX1-UP	GTF1-UP	JFZ1-UP	JLG1-UP
JPD1-UP	KBZ1-UP	KHN1-UP	KLM1-UP	KTF1-UP	L5Z1-UP
LFL1-UP	MCH1-UP	MDT1-UP	MPG1-UP	NAS1-UP	NDE1-UP
NES1-UP	PBD1-UP	PBE1-UP	PCM1-UP	RAC1-UP	SPN1-UP
SRT1-UP	TAE1-UP	TXA1-UP	WBN1-UP	WGC1-UP	XCK1-UP
YDS1-Up	ZGB1-UP				

Arrangement Number

272-4676	272-4677	272-4683	272-4706	272-4711	272-4730
272-4733	272-4736	272-4739	272-4747	279-7865	279-7899
287-0120	296-4676	296-4687	305-4777	305-4780	305-4882
310-9474	310-9757	327-7199	327-7224	379-4457	419-0542
419-0545					

Excavators

320D	320D L	320D GC	320D RR	320D LRR	320D LN
320D FM	321D LCR	323D	323D S	323D LN	323D SA
323D L					

CATERPILLAR C6.6 7475

EQUIPMENT MODELS

Arrangement Number

242-1319	242-1327	242-1348	242-1349	242-1350	242-1356
242-1357	242-1382	242-1385	242-1399	247-7088	257-6932
257-8006	264-0593	283-6282	284-5729	292-5305	292-5306
301-3356	301-3357	301-3360	301-3361	318-8074	319-7200
319-7201	319-7202	319-7261	361-1612	361-1613	361-1614
362-9381	362-9392	367-6735	367-6736	367-6737	367-6738
368-1859	368-4773	369-7838	369-7839	369-7840	369-7841
369-7842	369-7843	369-7844	369-7845	369-7846	369-7847
369-7848	370-3677	378-1549	378-4731	378-4732	381-7571
381-7572	381-7573	381-7574	381-7575	381-7576	384-6682
388-1878	393-2216	435-1668	435-1670	435-1672	435-1674
435-1678	435-1679	435-1681	435-1682	435-1688	435-1691
435-1693	435-1694	435-1696	435-1697	454-2921	454-2923
458-2400	461-7981	461-8932	461-8933	462-0676	462-0677
462-1057	469-9730	492-0875	493-5254	539-4769	539-6726
539-6728	539-6733	539-7818	543-1897	543-6310	

Machine Models

AP-655D - Asphalt Paver	120M - Grader	12M - Grader	553C - Feller Buncher	2470C - Feller Buncher	320D - Feller Buncher
320D GC - Excavator	320D L - Excavator	323D - Excavator	323D L - Excavator	M316D - Excavator	M318D - Excavator
M322D - Excavator	613G - Wheel Tractor Scraper	IT38H - Integrated Toll Carrier	924H - Scrapper	R1300G - Load Haul Dump	559 - Knuckleboom Loader
PL61 - Pipelayer	930H - Loader	924HZ - Loader	928H - Loader	928HZ - Loader	938H - Loader
IT38H - Loader	953D - Loader	AP655D - Paver	CS56 - Compactor	CP56 - Compactor	CP64 - Compactor
CS64 - Compactor	CS74 - Compactor	CP74 - Compactor	CS56B - Compactor	CS68B - Compactor	CP68B - Compactor
CS76 - Compactor	CP76 - Compactor	CS78B - Compactor	CS74B - Compactor	CP74B - Compactor	CS79B - Compactor
D5R - Dozer	D6K - Dozer	D6N - Dozer			

CATERPILLAR C6.6 2224

EQUIPMENT MODELS

Arrangement Number

242-1358	266-4556	266-4557	266-4558	270-0059	270-0060
270-0069	270-0070	270-0071	270-0072	272-4908	274-1171
274-1174	274-1175	274-1179	274-1180	274-1181	274-1182
274-1183	274-1184	274-1185	274-1186	274-9042	276-8689
278-4267	278-4268	278-4269	278-4270	278-4271	278-4272
278-4273	278-4275	278-4277	278-4285	279-3956	284-4624
284-4634	284-4635	284-4637	285-3417	285-3418	285-3419
288-5168	288-5169	288-5172	288-5177	288-5180	288-5181
288-5186	291-0361	291-0362	291-0363	291-1766	291-1767
291-1768	292-5296	292-5298	292-5302	294-7196	295-2161
295-2164	300-5062	300-5063	300-5065	300-5070	300-5075
300-5076	300-5077	301-3361	302-8566	302-8574	302-8578
305-0471	308-5595	308-5597	310-6944	310-6950	310-6953
313-1210	313-1217	313-1229	321-3053	321-3054	321-3057
324-7133	329-3148	329-3154	329-3157	329-3164	335-1529
335-1532	335-1535	335-1537	335-1547	340-5322	340-5325
344-4808	344-4817	344-4818	345-0170	345-0171	348-8485
348-8490	356-7057	361-1611	361-4530	361-4531	362-9118
362-9373	362-9385	362-9389	369-1651	369-1652	370-2936
370-2937	370-5532	371-8073	371-8074	371-8075	371-8076
372-0846	372-0847	372-4498	372-4499	372-4500	372-4502
373-1620	373-1621	373-1624	373-8066	373-8069	373-8073
373-8077	373-8078	373-8088	374-0419	375-4010	375-4011
375-4014	376-4677	376-4679	376-4680	378-1551	378-1552
378-1553	378-1554	381-7590	384-6666	384-6675	387-1624
387-8148	387-8149	390-3314	390-5139	390-5140	391-1914
393-6997	395-0737	396-4489	397-1545	398-1578	420-4741
423-8913	423-8917	431-1749	433-2678	435-1673	435-1686
435-1689	435-1690	435-1698	435-3722	435-3727	438-0897
441-5483	444-1460	444-1464	444-1468	448-2161	450-3601
450-3602	451-2882	451-2895	454-6984	454-6985	460-0600
463-8914	539-6732	539-7807			

Asphalt Paver

AP-1055E AP-1000E

Track-Type Loader

963D

CATERPILLAR C6.6 ACERT

EQUIPMENT MODELS

Arrangement Number

330-5455	330-5456	330-9602	333-6522	333-6524	345-2887
347-4030	348-4893	348-5010	348-5020	348-8477	351-4024
351-4161	353-2688	364-0843	371-4608	371-4609	373-7241
382-6606	384-4757	430-2990	430-2991	434-2180	434-2181
439-4926	445-7677	445-7678	445-7679	445-7680	447-2571
454-5773	454-5774	454-5775	454-5776	456-3210	456-3232
456-5161	456-5163	456-5165	456-6212	456-7953	461-9103
461-9104	462-1045	462-6755	463-9254	463-9255	464-8044
464-8045	465-1192	465-1365	465-2231	465-2301	466-7148
471-2533	471-2534	471-2658	471-2659	471-2660	471-2661
475-0743	478-7935	595-6161			

EXCAVATOR

320E 320E L 320E LN 320E LRR 320E RR 323E L

KNUCKLEBOOM LOADER

2384C 2484C 559C 579C

TRACK-TYPE TRACTOR

D6K2 LGP D6N LGP

WHEEL LOADER

924K 930K 938K

ENGINE SERIAL

C8N

CATERPILLAR C7.1 – PISTON #415-4315

EQUIPMENT MODELS

Arrangement Number

417-3389 467-4515 474-4045 482-9241 485-3093 525-2117
551-6297 565-0213 565-0288 578-6793 582-9032

Excavator

320D2 320D2 GC 320D2 L 323D3 323D3 320D2
320D2 L 320D2

Motor Grader

140 GC

Track Skidder

527

CATERPILLAR C7.1 – PISTON #575-3355

EQUIPMENT MODELS

Excavator

330 330 GC 333 336 GC

Landfill Compactor

816 816K

Wheel Skidder

535D 545D 555D

Asphalt Paver

AP1055 AP1055F AP655

Soil Compactor

815 815K

Wheel Dozer

814

Wheel Loader

814k 950 GC 950L 950M 962 962L
962M 963

Track Loader

963K

Arrangement Number

393-4097 416-6135 431-9253 435-8541 440-8198 445-2586
445-2599 445-8905 446-1005 446-7556 446-7567 449-5818
450-7535 451-5272 451-8343 453-7804 454-3965 455-9383
456-7961 456-7962 459-3605 459-6962 461-4651 461-4652
461-4653 461-4655 461-4656 461-4657 461-4658 461-4659
461-4661 461-4662 461-5422 461-5454 461-8772 463-0313
464-2005 464-2006 464-2007 464-8580 466-1161 466-1162
466-1163 468-0461 468-8218 469-4413 469-6211 469-6214
470-8667 470-8814 473-3373 473-3375 474-7299 475-3388
475-6719 475-9060 477-1871 477-1873 477-1874 477-2658
477-2660 478-4257 478-4261 479-7682 479-9398 480-2181
481-0144 481-0811 483-5155 483-9334 484-2939 485-8027
486-2644 486-4250 487-1245 487-1246 487-1247 488-2691
488-6687 489-9006 491-2606 491-4980 491-4993 491-7124
492-3169 493-1019 494-2068 494-6807 495-8349 499-7181
501-2466 502-9462 503-8792 504-4575 504-8134 504-9579
506-5035 506-9918 507-8016 510-1088 512-0316 513-0851
513-8513 514-3258 514-9367 515-9203 519-3490 519-4128
520-3152 524-8271 525-8759 526-0511 526-7210 526-8888
527-7106 528-3358 528-9866 528-9920 530-1323 530-2601
531-2492 533-2797 533-3588 535-8060 536-6675 539-6915
539-8582 540-3760 543-4255 545-6002 552-3506 552-8869
553-1809 553-3730 562-4190 562-8873 563-6728 563-6729
563-6730 565-1247 565-1249 565-1250 565-1251 569-4092
569-4093 569-4094 569-7846 575-2880 583-8352 583-9821
586-2495 587-7636 587-9651 588-8073 591-1266 591-9440
593-2201 593-7287 593-7288 594-2125 596-4113 596-4789
596-4834 596-7090 596-8905 597-0352 597-9248 598-8359
598-9881 601-2943 602-3189 602-8721 603-5300 608-1744
608-9332 608-9261 609-1973 609-9819 610-8215 611-9057
612-4874 613-9482 614-5792 614-5795 614-9555 622-6239
623-1309 623-6651 623-7564 624-0698 624-2300 624-2433
627-8019 628-8147 633-4335 640-1854

CATERPILLAR C7.1 – PISTON #389-5891

EQUIPMENT MODELS

EXCAVATOR

320D2

HYDRAULIC SHOVEL

6050 6050 FS

GENERATOR

C7.1DE150E C7.1DE150E0 C7.1DE200E C7.1DE200E0 DE150GC XQP150
DE165GC DE200E0 DE220GC

Arrangement

450-7503 450-7514 475-9835 478-8532 502-1178 577-3693
587-9650 600-0932 600-4457 600-4459 600-4461 605-2287
605-2290

CATERPILLAR C7.1 – PISTON #361-2460 ACERT

EQUIPMENT MODELS

Excavator

323F L 324E 324E L 324E LN 336 329E
329E L 329E LN

Wheel Loader

950K 962K 966F 966F II

Motor Grader

120M 2

Soil Compactor

815K

ASPHALT PAVER

AP1055E BG1000E

Wheel Feller Buncher

563C 573C

Generator

XQ200

Arrangement Number

328-1575 328-1598 329-9940 329-9942 331-6966 344-0943
344-0944 348-8474 348-8475 356-5353 357-0595 358-9227
359-8956 359-8958 359-9450 360-1966 360-4697 362-2074
363-6900 364-3482 365-1716 365-1717 365-1718 365-1719
365-1722 365-1723 365-1725 365-1726 365-1729 365-1741
365-1744 365-1745 365-1749 365-1750 365-1751 365-1752
365-6477 365-6492 366-7430 368-3157 368-4150 368-4184
369-0366 369-4503 370-6174 370-6896 371-1215 372-2374
372-2375 373-8018 373-8341 378-8168 380-1660 380-2597
380-2655 380-2668 381-8741 382-4959 383-1851 384-2211
384-2212 384-7984 390-2731 391-1872 391-2651 391-2652
391-9766 392-6274 393-3354 393-7692 395-2790 395-3671
395-4121 396-0550 396-4634 396-6952 396-8836 398-0085
398-0358 399-0095 415-3691 420-6378 421-1938 421-4760
422-1395 432-6531 432-6533 434-2182 434-2183 434-2228
441-3099 443-1115 443-1116 443-7288 446-5399 446-5400
449-2921 450-2859 452-9763 453-0126 453-0128 453-9054
453-9057 453-9063 454-5855 454-6516 454-7026 454-7385
454-7392 454-7402 454-7411 454-7420 454-7424 454-7476
454-7507 454-7559 454-8114 454-8125 455-5292 456-6915
456-7538 456-8176 456-8284 456-8891 456-9130 457-4772
457-5430 457-5489 458-8679 459-1672 469-9750 470-6434
470-6435 471-2651 471-2652 471-8413 471-8415 481-5676
500-9266 594-5443 594-5444 618-5526 618-5528

CATERPILLAR C7.1 – PISTON #436-7786 ACERT

EQUIPMENT MODELS

Excavator

323F L
326
326F L
329F L
330
330 GC
330 MHPU
330F
330F LN
333
335
336
336 GC

Log Loader

548
558
FM548
FM558

Soil Compactor

815K

Wheel Dozer

814
815
816

Wheel Loader

950
962
814K
815K
950 GC
950M
950M Z
962M
962M Z

Asphalt Paver

AP1000
AP-1000F
AP10055
AP1055F

Track Loader

963
963K

Wheel Feller Buncher

2570D
2670D
563D
573D

Wheel Material Handler

MH3037
MH3040

Wheel Skidder

525D
535D
545D
555D

Generator

XQ230
XQP200

Arrangement

381-2310
383-8051
389-5644
390-3704
390-3705
419-4590
419-4643
423-6189
423-7413
423-7414
431-9252
433-9818
434-6428
435-5707
438-5974
442-0614
442-7801
443-5956
445-1443
445-5317
445-8685
446-8876
446-8877
446-8878
446-8880
446-8881
446-8882
448-4219
449-3367
449-5205
450-5993
452-9413
453-6259
453-8919
454-7051
455-2411
455-5743
456-4706
457-1972
458-6509
458-6512
458-6514
458-6515
458-6518
458-6520
458-6521
458-6523
458-8685
459-1674
460-8905
460-8906
462-9581
463-3653
467-6783
467-8362
468-0884
468-3346
468-5417
469-7964
471-6749
471-8409
471-8411
471-8441
471-8442
476-3227
477-5626
478-8548
484-6603
485-1910
486-7430
488-4892
490-0131
490-0132
490-3347
492-4952
492-9110
498-4785
502-1437
503-9056
506-5467
508-5749
511-3116
512-1195
512-9065
512-9986
516-4221
516-9330
519-1687
519-6315
519-7377
519-7793
521-5320
522-4437
524-0944
524-1059
524-8950
524-9012
525-1793
525-4518
525-8913
526-1951
526-9057
527-6573
528-0252
528-0318
528-6648
529-2335
530-1892
530-2520
530-2521
532-9507
533-2433
533-2901
535-7546
536-6359
536-9194
538-2390
539-7761
542-1121
542-9851
547-1024
547-3186
548-2814
549-0015
549-4044
549-8104
550-4387
551-6314
553-1013
553-1802
554-8918
555-3726
555-3727
555-4686
555-5190
555-5378
555-6352
556-1708
557-8405
557-8406
558-3860
559-2696
560-5754
560-9669
562-6225
562-8875
563-8310
564-8890
566-0736
566-2327
566-9322
567-3075
567-3917
567-4474
567-4554
567-5864
567-9820
568-0507
568-1596
568-1597
568-3969
568-3971
568-5443
568-5915
568-7595
568-8216
568-8358
569-3833
569-4355
569-4477
569-4964
569-9083
570-0973
571-7395
572-0089
572-0131
572-0146
572-8009
572-8778
572-9439
573-0382
573-1472
573-1648
573-4415
573-4469
573-6229
573-7095
573-7804
574-9075
575-2718
575-2810
575-2841
575-3519
575-7193
575-7194
575-8577
576-3270
576-5340
576-5367
577-2446
577-2770
578-8676
579-0719
579-3042
579-7321
580-2097
580-7760
581-0459
582-9374
583-1109
583-8380
585-1863
585-2667
585-2829
585-2907
585-4959
587-6628
588-1289
592-0676
592-3213
592-5754
592-9587
593-2781
594-0835
594-0835
594-0898
594-0902
595-5101
595-6837
595-9591
596-4079
597-0406
597-8727
599-7443
601-9562
602-8106
603-0026
603-1829
603-1829
607-0663
607-2468
607-2470
607-2471
609-4135
609-4137
609-4141
619-5272
620-1700
622-2080
622-8406
626-1225
626-1254
627-9560
628-1246
630-1740
630-2459
630-2460
631-0278
633-3078
633-3080
633-4659
643-8544

YANMAR 3TNE82A

EQUIPMENT MODELS

YANMAR ENGINE MODELS

3TNE82AC-ECR
3TNE82AC-KM
3TNE82A-EYBC
3D82AE-3HC
3TNE82A-AF
3TNE82AC-EKM
3TNE82A-EYBD
3TNE82A-EAF
3TNE82AC-EKMB
3TNE82A-EYBE
3TNE82A-ECB
3TNE82A-EPM
3TNE82A-EBEN
3TNE82A-DG
3TNE82A-YBC
3TNE82A-BEN
3TNE82A-DGD
3TNE82A-YBD
3TNE82A-EWA

AMMANN

B27-2A - EXCAVATOR

JOHN DEERE

3215B - MOWER
3235 - MOWER
790 - TRACTOR
4210 - TRACTOR
JD1100 - TRACTOR

KOMATSU

PC20-7 - EXCAVATOR
PC15-3 - EXCAVATOR
PC30FR - EXCAVATOR
PC28UU-2 - EXCAVATOR
PC28UU2E - EXCAVATOR
PC25R-8 - EXCAVATOR
PC27R-8 - EXCAVATOR
PC30FR-2 - EXCAVATOR
PC27MR-1 - EXCAVATOR
PC25MR-1 - EXCAVATOR
PC27MRX-1 - EXCAVATOR

MASE

IS9 - GENERATOR

TAKEUCHI

TB125 - EXCAVATOR
F5B - EXCAVATOR
TB 228 - EXCAVATOR
TB 28 FR - EXCAVATOR

YANMAR

F-28EX - TRACTOR
AF250 - TRACTOR
V2-2 - WHEEL LOADER
B27-2 - EXCAVATOR
F250H - TRACTOR
AF250R - TRACTOR
VIO30-2 - EXCAVATOR
B27-2A - EXCAVATOR
AF210 - TRACTOR
AF322 - TRACTOR
VIO35-2 - EXCAVATOR
B27-2B - EXCAVATOR
AF210R - TRACTOR
AF324 - TRACTOR
B27-2 - EXCAVATOR
B30V - EXCAVATOR
AF230 - TRACTOR
FE280 - TRACTOR
VIO30-1 - EXCAVATOR
VIO30 V - EXCAVATOR
AF230R - TRACTOR
FE280H - TRACTOR
B3U - EXCAVATOR

DENYO

DCA-13SPY2 - GENERATOR
DCA-11XY - GENERATOR

KOBELCO

Z71 - EXCAVATOR
Z72 - EXCAVATOR
Z73 - EXCAVATOR
30SR - EXCAVATOR
SK030 - EXCAVATOR
SK30 SR 2 - EXCAVATOR
SK35 SR 2 - EXCAVATOR
SK35SR-1 - EXCAVATOR

KOHLER

10EOZ - GENERATOR

TEREX

2300H - DUMPER

THWAITES

MACH 220 - DUMPER
ALLDRIVE 15 TO FK - DUMP TRUCK
ALLDRIVE 20 TO DR - DUMP TRUCK
ALLDRIVE 20 TO FK - DUMP TRUCK
ALLDRIVE 20 TO HD - DUMP TRUCK

ARIENS GRAVELY

400 - MOWER

FIAT KOBELCO

E 30 SR - EXCAVATOR
E 35 SR - EXCAVATOR

NEW HOLLAND

E 30 SR - EXCAVATOR
E 35 SR - EXCAVATOR
SK30 SR 2 - EXCAVATOR
SK35 SR 2 - EXCAVATOR

YANMAR 3TNE84

EQUIPMENT MODELS

Kobelco

35SR - Excavator
SK035 - Excavator
LK40Z - Loader
SK030-2 - Excavator
SK30UR - Excavator
SK35SR - Excavator

Gravely

PRO CHIP 944 - Chipper

Hitachi

LX30-2 - Loader

Kohler Generators

10ROY
10ROZ
10RO91
11.5EFOZ
12KW
14EFOZ
13EFOZ
15EOZ
15.5EOZ

Doosan

602 PLUS - Loader
DSL602 - Loader

Komatsu Engine Model

3D84E-1FB
3D84E-2FB
3D84E-3A
3D84E-3B
3D84E-3F
3D84E-3K
3D84E-3K
3D84E-3LN
3D84E-FX-AB
3D84E-5X-AB
3D84N-2AA
S3D84E-3B
S3D84E-3A
S3D84E-3C
3D84E
S3D84E

YANMAR

AF326 - TRACTOR
AF328 - TRACTOR
AF330 - TRACTOR
V 3-5 - WHEEL LOADER

BELLE (HK-BELLE)

751 - SKID STEER

ANDI-BERNING

AK300 DY - SKID STEER
AK300 H DY - SKID STEER

JOHN DEERE

4300 - TRACTOR

THWAITES

ALLDRIVE 30 TO DV - DUMP TRUCK

FUCHS

F 1100 - WHEEL LOADER

Komatsu

GC50-1 - Road Cutter
JV25CW-2 - Roller
JV25DW-2 - Roller
JV25W-2 - Roller
JV40CW-3 - Roller
JV40DW-3 - Roller
MX35 - Excavator
PC20-6 - Excavator
PC25-1 - Excavator
PC30-6 - Excavator
PC30-7 - Excavator
PC30MR-1 - Excavator
PC30MR-1-K - Excavator
PC30MR-3 - Excavator
PC30MR-5 - Excavator
PC30MRX-1 - Excavator
PC30R-8 - Excavator
PC30UU - Excavator
PC30UU-3 - Excavator
PC30UU-6 - Excavator
PC35R-7 - Excavator
PC35R-8 - Excavator
PC35MRX-1A - Excavator
PC38UU-1 - Excavator
PC38UU-2 - Excavator
PC38UU-3 - Excavator
SK05J-2 - Skid Steer
SK07-2 - Skid Steer
WA30-2 - Loader
WA30-5-NA - Loader
WA30-5-W - Loader
WA30-5-X - Loader
WA40-3 - Loader
WA40-3RS-X - Loader
WA40-3SF-X - Loader
WA40-3-X - Loader
WA50-3 - Loader
WA50-3-X - Loader

YANMAR 4TNE84

EQUIPMENT MODELS

Yanmar

YEG400DSHC - Generator
YEG400DSHS - Generator
YEG400DTHC - Generator
YEG400DTHS - Generator
YEG400DTHS5B - Generator
PRO CHIP 944 - Chipper

Yanmar Engine Models

4TNE84-AF
4TNE84-GB2B
4TNE84-EAF
4TNE84-EMSA

Daewoo

1340XL - Skid Steer
602 Plus - Skid Steer
DSL601 - Skid Steer

Kobelco

SK40SR-2 - Excavator

Komatsu

BC70 - Drill Machine
PC45-1 - Excavator
PC40-7 - Excavator
PC40R-8 - Excavator
PC45R-8 - Excavator
PC40MRX-1-E - Excavator
PC45MRX-1-E - Excavator
RAM700-3 - Backhoe
SK510 - Skid Steer
SK815 - Skid Steer
SK820 - Skid Steer
SK820-5 - Skid Steer

Komatsu Engine Models

4D84E-3FB
4D84E-3B
4D84E-3C
4D84E-3D
S4D84E-1FD
4D84E-3E
4D84E
S4D84E

Mustang

2040
2042
2044
2050

YANMAR 3TNE88

EQUIPMENT MODELS

Yanmar

B37-2B - Excavator
B37V - Excavator
B37V-1 - Excavator
ViO40 - Excavator
ViO40-1 - Excavator
ViO40-2 - Excavator
ViO45 - Excavator

Komatsu

PC40FR-1 - Excavator
PC40FR-2 - Excavator
ZHM1500-2 - Mower

Gehl

SL3635 - Skid Steer
3635 - Skid Steer
3935 - Skid Steer

Takeuchi

TB135 - Excavator
TTR4400 - Tractor
QAS15 - Generator

Komatsu Engine Models

3D88E-3A
3D88-3B
3D88E
3D88

Kohler-Generators

11EFOZ
13EOZ

Landini-Tractors

MISTRAL 38
MISTRAL 40

Yanmar Engine Model

3TNE88-ACG
3TNE88-ACGD
3TNE88-AGD
3TNE88-AMU
3TNE88- BUE
3TNE88- CR
3TNE88- EG1A
3TNE88-GIA
3TNE88-G1AO1
3TNE88-LAN
3TNE88-MC-EK
3TNE88-MC-K
3TNE88-NSR
3TNE88-PG
3TNE88-SA
3TNE88-TB
3TNE88-YC
3TNE88-TB
3TNE88-TB1
3TNE88-ETB
3TNE88-ETB1

Mustang

2032 - Skid Steer

YANMAR 4TNE88

EQUIPMENT MODELS

Yanmar Engine Models

4TNE88-ACG	4TNE88-ACGD	4TNE88-AD	4TNE88-ADEL	4TNE88-AGD	4TNE88-BEN
4TNE88-BUE	4TNE88-EACG	4TNE88-EAD	4TNE88-EAD1	4TNE88-EADS	4TNE88-EC1MC
4TNE88-EFL	4TNE88-EG1A	4TNE88-GR	4TNE88-HP	4TNE88-YS	4TNE88-IKA
4TNE88-LAN	4TNE88-M-EK	4TNE88-MS	4TNE88-NS	4TNE88-NSR	4TNE88-NSW
4TNE88-PG	4TNE88-P2	4TNE88-SA	4TNE88-TB	4TNE88-TB1	4TNE88-ETB
4TNE88-ETB1	4TNE88-ETBZ	4TNE88-EYBC			

Komatsu Engine Models

4D88E-3A	4D88E-3B	4D88E-3C	4D88E-3GB	4D88E-3H	4D88E-3D
4D88E-3F	4D88E-3C-M	4D88E-3C-04	4D88E		

Yanmar

B50-2A - Excavator	B50-2B - Excavator	B6-3 - Excavator	B6U - Excavator	B6U-1 - Excavator	B7-5 - Excavator
B7-5A - Excavator	ViO50 - Excavator	ViO50-1 - Excavator	ViO50-2 - Excavator	ViO55 - Excavator	B 50 V - Excavator
VIO50 V - Excavator					

Case

CX47 - Excavator	CX50B - Excavator

Kohler

19EOZ

Landini

MISTRAL
50 - Tractor

BELLE (HK-BELLE)

761 XP - Skid steer	761 XS - Skid steer	761 - Skid steer

KOBELCO

SK40 SR - Excavator	SK50 SR - Excavator	SK55 SR - Excavator	SK55 SRX - Excavator

THWAITES

ALLDRIVE 35 TO DV - DUMP TRUCK	ALLDRIVE 35 TO FK - DUMP TRUCK	ALLDRIVE 40 TO DV - DUMP TRUCK	ALLDRIVE 40 TO V - DUMP TRUCK

PALAZZANI

PL 25 - WHEEL LOADER

Hyundai

HSL610

Kobelco-Excavators

B84	CX47	SK45SR-2	SK50UR-3	Z75	Z76

Komatsu

CD30R-1 - Tracked Dumper	CR30R-1 - Tracked Dumper

Mustang

2050	2054	940 - Skid steer

BENFORD

3500 H - DUMP TRUCK

TEREX

PS 3500 H - DUMP TRUCK	PS 4000 H - DUMP TRUCK	PT 4000 - DUMP TRUCK

WACKER NEUSON

3003 - Excavator	3402 FORCE - Excavator	3503 - Excavator	3602 FORCE - Excavator	3703 - Excavator	5002 - Excavator

VENIERI

3063 - WHEEL LOADER

ANDI-BERNING

AK500 DY - Skid steer

YANMAR 4TNE92

EQUIPMENT MODELS

Yanmar Engine Models

4TNE92-HRJ	4TNE92-NMH	4TNE92-NMHA	4TNE92-BNLS	4TNE92-BRTL	4TNE92-POM
4TNE92-POMD	4TNE92-SNM	4TNE92-SNM2	4TNE92-SNM3	4TNE92-SNMC	4TNE92-SNMS
4TNE92-SNMS2	4TNE92-SNMS3	4TNE92-SNMSE	4TNE92-SNMSE		

Komatsu Engine Models

4D92E-1B

Komatsu

FD15T -
Forklift

HYSTER

H60FT -
Forklift

NEXEN

FDX18 -
Forklift

OM CARRELLI ELEVATORI S.P.A

XD15/18/20
- Forklift

YANMAR 4TNE94

EQUIPMENT MODELS

Yanmar Engine Models

4TNE94-ACG
4TNE94-DBW
4TNE94-DBWK
4TNE94-EIK
4TNE94-G1A
4TNE94-HLB
4TNE94-HYB
4TNE94-SA
4TNE94-SF
4TNE94-SFW
4TNE94-WI

Komatsu Engine Models

4D94E-1A
4D94E

Yanmar

B55W - Excavator
B55W-1 - Excavator

Clark Equipment

C20D - Forklift
C25D - Forklift
C30D - Forklift

Daewoo

SOLAR 55V - Excavator

Hyundai

Robex 55-3 - Excavator
Robex 55W - Excavator
Robex 55W-3 - Excavator

Komatsu

500PD-14 - Forklift
D20P-7 - Dozer
D20A-7-M - Tractor
D20P-7A-M - Tractor
D20PL-7-M - Tractor
D20PLL-7-M - Tractor
D20Q-7-M - Tractor
D21P-7A-M - Tractor
D21PL-7-M - Tractor
D21Q-7-M - Tractor
FD20 - Forklift
FD20T - Forklift
FD20T-14 - Forklift
FD25 - Forklift
FD30 - Forklift
FD30T-14 - Forklift
P60-BXD - Forklift
FG25T-12 - Forklift
D20S-7-M - Loader
D21S-7-M - Loader
WA65-3 - Loader
WA65PT-3 - Loader
WA75-3 - Loader

Landini

TREKKER 60F - Tractor

Atlas Copco

QAS28 - Generator

YANMAR 4TNE98 DIRECT INJECTION

EQUIPMENT MODELS

Hyundai

HSL810 - Skid Steer
R80-CR-9 - Excavator

Komatsu

D21A-7T-M - Tractor
D21P-7T-M - Tractor
XD30 - Forklift
FD20TH - Forklift
FD30H - Forklift
PC70FR-1 - Excavator
PC75R-1 - Excavator
PC75R-2 - Excavator
PW75-1 - Excavator
PW75R-2 - Excavator
SK09J-2 - Skid Steer
WA75-3 - Loader
WA85-3 - Loader
WB70A - Loader
WB70A-1 - Backhoe

Komatsu Engine Models

4D98E-1A-TR
4D98E-1C
4D98E-1FB
4D98E

Yanmar

ViO70 - Excavator
ViO70-2 - Excavator
ViO75 - Excavator

Takeuchi

TL130

Kohler

32EOZ - Generator

Yanmar Engine Model

4TNE98-ACG
4TNE98-ACG24
4TNE98-AD
4TNE98-ADS
4TNE98-AG
4TNE98-AMM
4TNE98-DB
4TNE98-FB
4TNE98-G1A
4TNE98-HYS
4TNE98-KM
4TNE98-NSR
4TNE98-SA
4TNE98-TB
4TNE98-TBZ
4TNE98-TBL
4TNE98-TBW
4TNE98-TBA
4TNE98-TLB
4TNE98-WI

Doosan

SOLAR 75-V - Excavator

Mustang

MTL16 - Loader

Atlas Copco

QAS38 - Generator
QAS38 24 Volt - Generator

YANMAR 4TNE106D

EQUIPMENT MODELS

Yanmar Engine Models

4TNE106D-AMM	4TNE106D-G1	4TNE106D-G1A	4TNE106D-GE	4TNE106D-SA	4TNE106D-TB

Gehl

7600 - Skid Steer	SL7600 - Skid Steer

Komatsu

PC95R-2 - Excavator	PW95R-2 - Excavator	WA115-3 - Loader	WA90-3 - Loader	WA95-3 - Loader	WB140-2 - Backhoe
WB140-2N - Backhoe	WB140PS-2 - Backhoe	WB140PS-2N - Backhoe	WB150-2 - Backhoe	WB150-2N - Backhoe	WB150AWS-2 - Backhoe
WB150AWS-2N - Backhoe	WB150PS-2 - Backhoe	WB150PS-2N - Backhoe	WB91R-2 - Backhoe		

YANMAR 3TNV70

EQUIPMENT MODELS

YANMAR ENGINE MODELS

3TNV70-ACB
3TNV70-AMP
3TNV70-ASA
3TNV70-ASA3
3TNV70-ASA3
3TNV70-ASA3T
3TNV70-ASAT
3TNV70-DPE
3TNV70-DTS
3TNV70-DWL
3TNV70-FDW
3TNV70-GGE
3TNV70-GGEA
3TNV70-GGEC
3TNV70-GGET
3TNV70-GMA
3TNV70-GMG
3TNV70-GNP
3TNV70-HGB2B
3TNV70-HGB2BT
3TNV70-HGB2C
3TNV70-HGB2CT
3TNV70-HGE
3TNV70-HGEP
3TNV70-HGET
3TNV70-HMF
3TNV70-HMG
3TNV70-HPGE
3TNV70-KBR
3TNV70-KGD
3TNV70-KUSS
3TNV70-NBK
3TNV70-NPR
3TNV70-PHB
3TNV70-PHBB
3TNV70-PSJ
3TNV70-PUKNE
3TNV70-QIK
3TNV70-SSU
3TNV70-SSU1
3TNV70-SSY
3TNV70-STYMB
3TNV70-U3C
3TNV70-UPS
3TNV70-VHB
3TNV70-VNS
3TNV70-XHB
3TNV70-XHBT
3TNV70-XHT
3TNV70-XMHS
3TNV70-XZN
3TNV70-XBV

KOMATSU ENGINE MODELS

3D70E-5MKAH
3D70E-5XKAH

ISUZU ENGINE MODELS

3CA1-AZP01
3CA1-GZG01

YANMAR

GK130 - Tractor
GK140 - Tractor
GK160 - Tractor
AJ218 - Combine
AJ216 - Combine
EE214G - Combine
VP80D - Rice Transplanter
HN2V - Carrot Harvester
V1-1 - Wheel Loader
V1-1A - Wheel Loader
VIO10-2 - Mini Excavator
VIO15-2A - Mini Excavator
VIO15-3 - Mini Excavator
VI017 - Mini Excavator
SV17 EX - EXCAVATOR
SV17 - EXCAVATOR
VIO10-2 A - EXCAVATOR
VIO15 - EXCAVATOR
VIO17 UNIV - EXCAVATOR

TAKEUCHI

TB016 - Excavator
TB 016 A - EXCAVATOR
TB 016 S HYBRID - EXCAVATOR
TB 016 S - EXCAVATOR
TB 215 R - EXCAVATOR
TB 216 A - EXCAVATOR
TB 216 S - EXCAVATOR
TB 219 A - EXCAVATOR
TB 219 S - EXCAVATOR

SUNWARD

SWE16 - Excavator

WACKER NEUSON

803 - Excavator

STIGA

TITAN 20B - Mower

SATO

YKS972D - Mower

WADO SANGYO

YSR1530 - Snow Blower

SAKAI HEAVY INDUSTRIES

SW200 - Vibratory Roller
SW230 - Vibratory Roller
SW250 - Vibratory Roller
TW200 - Vibratory Roller
TW230 - Vibratory Roller
TW250 - Vibratory Roller

PRAMAC

P11000 - Generator

NORPRO

7NY - GENERATOR

MATSUYAMA

GRA650 - Sweet Potato Harvester

MASE

IS9 - Generator

KOMATSU

WA10-1EO - Wheel Loader

KIORITZ

RV60 - Paddy Field Control Machine

ZANOTTI

UNO - Refrigerator

IHI Construction Machinery

15NX - Excavator

CUB CADET

UTV 4X4 - Utility Vehicle

AMMANN

SV14 - Mini Excavator
SV16 - Mini Excavator

DENYO

TLG-12ESX - Generator

GOLDONI

BOXER 20 - Compact Utility Tractor

HITACHI

ZX17U-2 - Excavator
ZX8-2 - Excavator
ZX10U-2 - Excavator
ZX14-3 - Excavator
ZX16-3 - Excavator
ZX18-3 - Excavator
ZX22 U-2 - Excavator

JOHN DEERE

4X2 HPX - Gator Utility Vehicle
4X4 HPX - Gator Utility Vehicle
A3 4X4 Military - Gator Utility Vehicle
A1 6X4 Military - Gator Utility Vehicle
TH 6X4 - Gator Utility Vehicle
850D XUV - Gator Utility Vehicle
855D XUV - Gator Utility Vehicle
855D S4 XUV - Gator Utility Vehicle

AIRMAN

AX08-3 - EXCAVATOR
AX10 U 4 - EXCAVATOR
AX16-4 - EXCAVATOR
AX17 U 4 - EXCAVATOR
AX18-4 - EXCAVATOR
AX27-4 - EXCAVATOR

CATERPILLAR

300.9 D - EXCAVATOR
302.7 D - EXCAVATOR

EUROCOMACH

20C - TRACTOR

ES 15 SR - EXCAVATOR | ES 150.5 SR - EXCAVATOR | ES 18 ZT - EXCAVATOR | ES 180 ZT - EXCAVATOR

FUCHS

F 850 - WHEEL LOADER

CASE

CX18 - EXCAVATOR

YANMAR 3TNV76

EQUIPMENT MODELS

YANMAR ENGINE MODELS

3TNV76-CAV	3TNV76-CCSF	3TNV76-CKE	3TNV76-CPE	3TNV76-CSA	3TNV76-CSA3
3TNV76-CSAC	3TNV76-CSAP	3TNV76-CSAT	3TNV76-DKTF	3TNV76-DST	3TNV76-DTE
3TNV76-DU1	3TNV76-DVA	3TNV76-DWL	3TNV76-DWM	3TNV76-FDG	3TNV76-FDW
3TNV76-GEU	3TNV76-GGE	3TNV76-GGEA	3TNV76-GGEC	3TNV76-GGEA	3TNV76-GGEH
3TNV76-GGEHC	3TNV76-GGEHR	3TNV76-GGEP	3TNV76-GGET	3TNV76-GGK	3TNV76-GGK2
3TNV76-GMA	3TNV76-GMF	3TNV76-GMG	3TNV76-GNP	3TNV76-GPGE	3TNV76-GPGEC
3TNV76-HGB2B	3TNV76-HGB2BT	3TNV76-HGB2C	3TNV76-HGB2CT	3TNV76-HGE	3TNV76-HGEP
3TNV76-HMF	3TNV76-KGD	3TNV76-KGWLF	3TNV76-KPU	3TNV76-KURV	3TNV76-KUSS
3TNV76-KWA	3TNV76-MNK	3TNV76-MSP	3TNV76-NAMM	3TNV76-NBK	3TNV76-NFK
3TNV76-NHB	3TNV76-NIME	3TNV76-NMB	3TNV76-NNS	3TNV76-NTA	3TNV76-PAMM
3TNV76-PIKA	3TNV76-PUKN	3TNV76-PUKNE	3TNV76-QIK	3TNV76-QIKA	3TNV76-QUKA
3TNV76-SHB	3TNV76-SIK	3TNV76-SNS	3TNV76-SNS2	3TNV76-SNSE12	3TNV76-SPR
3TNV76-SSU	3TNV76-XDUFU	3TNV76-XGZ	3TNV76-XHB	3TNV76-XHT	3TNV76-XMHS
3TNV76-XMR	3TNV76-XNSV	3TNV76-XZN			

KOMATSU ENGINE MODELS

3D76E-6NDA	3D76E-6NDAF	3D76E-5NBAF	3D76E-5NBA

ISUZU ENGINE MODEL

3CB1-CZP	3CB1-CZP01	3CB1-CZP02	3CB1-CZP03	3GB1-GZG01	3GB1-MZP01

YANMAR

GK165 - Tractor	GK185 - Tractor	GK200 - Tractor	GC222/322 - Combine	GC219 - Combine	B2U-3 - Excavator
B2 - Excavator	VIO20-3TYUUTOU - Mini Excavator	VIO20-3 - Mini Excavator	YPU23V - Power Unit	SV 20 - Excavator	VIO25 - Excavator

WACKER NEUSON

1001 - Dumper Trk,Skid Steer Loader	1501 - Dumper Trk,Skid Steer Loader	TD15 - Dumper Trk,Skid Steer Loader	1404 - Mini Excavator	E12 - Mini Excavator	1403 - Excavator
			1503 - Excavator	1601 - DUMP TRUCK	1703 - Excavator
1903 - Excavator	2003 - Excavator	2203 - Excavator	2404 - Excavator	28 Z 3 - Excavator	DW30 - DUMP TRUCK
ET16 - Excavator	ET18 - Excavator	ET20 - Excavator	ET24 - Excavator	EZ17 - Excavator	EZ28 - Excavator
TD 18 - DUMP TRUCK					

VALPADANA

1430 - Tractor	4525 ISM - Tractor

TAKEUCHI

TB20R - Excavator	TB23R - Excavator

SUNWARD

SWE17X - Excavator	SWE18UB - Excavator

THWAITES

DUMPER 1TONNE - Dumper Truck	ALLDRIVE 10 TO DR - Dumper Truck	ALLDRIVE 10 TO H - Dumper Truck

STIGA

TITAN 26H - Mower

PRAMAC

LSW10 - Generator

OCHIAI

OHL-5D - Harvester

MITSUBISHI

TU100SA - Refrigerator Unit

MAEDA

MC-305-2 - Crawler Crane

KOMATSU

PC20MR-2 - Excavator	PC22MR-3 - Excavator	PC26MR-3 - Excavator	B2U-3 - Excavator

KARCHER

KM 130/300 D - Sweeper

IHI

20NX - Excavator	20Z - Excavator	25NX - Excavator	28N - Excavator	AS12 - Skid Steer Loader

HITACHI

ZX20U - Excavator	ZX22U-2 - Excavator

HINOWA

HINOWA - Forklift

HIMOINSA

APOLO 2000 - Generator	HYW-9M - Generator	HYW-8 - Generator

GRILLO

FD1100 - Front Mount Mower

GOLDONI

boxter 25 - Tractor

GEHL

KL158 - Wheel Loader	140 - Articulated

Wheel Loader

FURUKAWA

URW370C - Mini Crawler Crane | URW375 - Mini Crawler Crane

DENYO

TLG-15ESX - Generator | TLG-18ESY - Generator | PCX-70ES - PCX-70ES

CUB CADET

6000 Series - Compact Utility Tractor

CSF

MULTIONE S26 - Utility Vehicle

ANTONIO CARRARO

TIGRE 3200 - Tractor

AMPAC

P33-24Y - Vibratory Roller

AMMANN DUO SWISS

AV12 - Vibratory Roller | AV15 - Vibratory Roller | AV20 - Vibratory Roller | AV1-3 - Vibratory Roller | VIO25 - Excavator | SV20 - Mini Excavator

JOHN DEERE

1026R - Tractor | 2305 - Tractor | 2350 - Tractor | X495 - Tractor | X740 - Tractor | X744 - Tractor
X748 - Tractor | X749 - Tractor | X950R - Tractor | 1435 - Mower | 2030S - Vehicle | E18ZS - Excavator
2320 - Tractor

AMMANN

ARX12 - ROLLER | ARX16 K - ROLLER | ARX16 - ROLLER | ARX20 - ROLLER | AV16-2 K - ROLLER | AV16-2 - ROLLER

CATERPILLAR

301.4 C - Excavator | 301.7 D CR - Excavator | 301.7 D - Excavator | 302.4 D - Excavator

EUROCOMACH

ES 22 SR - Excavator | ES 25 ZT - Excavator

AIRMAN

AX22 U 4 - Excavator

GEHLMAX-IHI

MB 20 NX - Excavator | MB 25 NX - Excavator | MB 25 VX - Excavator

IHIMER

20 VX - Excavator | 25 VX - Excavator

FUCHS

F 853 H - WHEEL LOADER | F 853 - WHEEL LOADER

YUCHAI

YC18-9 - Excavator

MUSTANG

AL 106 - WHEEL LOADER

YANMAR 3TNV82A

EQUIPMENT MODELS

YANMAR ENGINE MODELS

3TNV82A-SYB | 3TNV82A-XYBK | 3TNV82A-DCR | 3TNV82A-SDB | 3TNV82A-PDB | 3TNV82A-GGEC
3TNV82A-XFU | 3TNV82A-DSA2 | 3TNV82A-SNN | 3TNV82A-QYB | 3TNV82A-GGK | 3TNV82A-GKL
3TNV82A-XKMR | 3TNV82A-GMG | 3TNV82A-GMG2 | 3TNV82A-SSU | 3TNV82A-KWA | 3TNV82A-KVA
3TNV82A-DNSV | 3TNV82A-DSA | 3TNV82A-DSA2 | 3TNV82A-DSA3

JOHN DEERE

997 - MOWER | 1445 - MOWER | 1545 - MOWER | 7200 - MOWER | 790 - TRACTOR | 2520 - TRACTOR
2520H - TRACTOR | 3005 - TRACTOR | 3005N - TRACTOR | 2027R - TRACTOR

YANMAR

EF220 B3 | EF222 VIO27-5 | EF227 VIO30-2A | EG222 VIO30-3 | EG224 VIO30-5 | V2-2

KOMATSU

WA20-6 - WHEEL LOADER | JW30-2 - ROLLER | PC27MR-2 - EXCAVATOR | PC27R-8 - EXCAVATOR | PC27MR-3 - EXCAVATOR

KOBELCO

Z80 - EXCAVATOR | Z81 - EXCAVATOR | CX27B - EXCAVATOR | Z73RP - EXCAVATOR

TAKEUCHI

TB28FR - EXCAVATOR

VALPADANA

1430 - TRACTOR | 4535 - TRACTOR

WACKER NEUSON

2000 - DUMPER

WADO SANGYO

SW2712 - SNOW BLOWER

SUNWARD

SWE25 - EXCAVATOR

MASE

IS9 - GENERATOR

AMMANN

B25V - EXCAVATOR | VIO30 - EXCAVATOR

CARRARO

K333 - MOWER

DOOSAN

FUCHS

DX30Z - EXCAVATOR

F950H - WHEEL LOADER

INGERSOLL RAND

7/26 - AIR COMPRESSOR

YANMAR 3TNV84

EQUIPMENT MODELS

Yanmar Engine Models

3TNV84-K5FD	3TNV84-BGKL	3TNV84-BGMG	3TNV84-BKSA2	3TNV84-BMCU	3TNV84-BMNK
3TNV84-BXNK	3TNV84-DUW	3TNV84-DZP01	3TNV84-DZP02	3TNV84-DZP03	3TNV84-GDG
3TNV84-GGE	3TNV84-GKL	3TNV84-GMG	3TNV84-GKM	3TNV84-GYM	3TNV84-GZG01
3TNV84-KMW	3TNV84-KSA	3TNV84-KSA2	3TNV84-KSA3	3TNV84-KUP	3TNV84-LUZ
3TNV84-MU2	3TNV84-NBK	3TNV84-NU1	3TNV84-Q1K	3TNV84-Q1KA	3TNV84-S1K
3TNV84-XKMR	3TNV84-XWL	3TNV84-QIKA			

Komatsu Engine Models

3D84E-5Q-QB	3D84E-5N-BA	3D84E-5X-AB	S3D84E-5X-AC	S3D84E-5X-AB	S3D84-5X-AB
S3D84-5X-AB					

Komatsu

JV25CW-3 - Roller	JV25DW-3 - Roller	PC30MR-2 - Excavator	PC30MR-2-A - Excavator	PC30MR-2-B - Excavator	PC30MR-2-C - Excavator
PC30MR-2-D - Excavator	SK510-5 - Excavator	SR3000 - Chipper	WA30-5 - Wheel Loader	WA40-3 - Wheel Loader	WA40-3-CB - Wheel Loader
WA40-3-CN - Wheel Loader	WA50-3 - Wheel Loader	WA50-3CB - Wheel Loader	WA50-3-CN - Wheel Loader		

Marine Pleasure

3JH3 (*)	3JH3E (*)	3JH3CE (*)

Isuzu

3CD1-DZP01	3CD1-DZP02	3CD1-DZP03	3CD1-DZP04	3CD1-DZP05	3CD1-GZG01
3CD1-KZP01	3CD1-KZP02	3CD1-KZP03	3CD1-MZP01		

YANMAR 4TNV84T

EQUIPMENT MODELS

Yanmar Engine Models

4TNV84T-XVS	4TNV84T-ZDVS	4TNV88-BDVS	4TNV84T-BGGE	4TNV84T-BGKL	4TNV84T-BGMG
4TNV84T-BGYM	4TNV84T-BMSA	4TNV84T-BMSA2	4TNV84T-BPCU	4TNV84T-DFM	4TNV84T-DMW
4TNV84T-DSA	4TNV84T-DSA3	4TNV84T-GGE	4TNV84T-GGEH	4TNV84T-GGEHC	4TNV84T-GKL
4TNV84T-GKM	4TNV84T-GKMR	4TNV84T-GMG	4TNV84T-K5FD	4TNV84T-K5FN	4TNV84T-KLAN
4TNV84T-KSNV	4TNV84T-KWA	4TNV84T-MWA	4TNV84T-XNSS	4TNV84T-XTBL	4TNV84T-XWL

Yanmar

ViO55 - Excavator	ViO57 - Excavator

Hi-Power Genset Model

HYW-20 T5	HYW-25 M5	HYW-25 T6	HYW-25 M6	HRYW-20 T5	HRYW-25 T6

Komatsu

PC50MR-2 - Mini Excavator	SK815-5 TURBO - Skid Steer	SK816-6 - Skid Steer	SK820-5 TURBO - Skid Steer	SK820-6 - Skid Steer

Landini

MISTRAL 55 - Tractor

Gehl

CTL55 - Skid Steer

Komatsu Engine Models

S4D84E-5P-BA	S4D84E	S4D84E-5KFD

Takeuchi

TL120 - Compact Loader

New-Holland

T3040 - Tractor

Kobelco

Z138 - Excavator

Volvo

MC70 - Skid Steer	MC70C - Skid Steer

YANMAR 3TNV88

EQUIPMENT MODELS

Yanmar Engine Models

3TNV88-BDCR	3TNV88-BDVR	3TNV88-BKMW	3TNV88-BPTB	3TNV88-BPTB2	3TNV88-BPYB
3TNV88-DCR	3TNV88-DSAP	3TNV88-EMS	3TNV88-GYM	3TNV88-MU2	3TNV88-NBK
3TNV88-SDB	3TNV88-XAMM				

Yanmar

V3-6 - Loader	ViO30 - Excavator	ViO33 - Excavator	ViO35 - Excavator	ViO35-5 - Excavator	ViO30 - Excavator
ViO35 - Excavator	B37 - Excavator	B37-2 - Excavator	B37V - Excavator	C30R-1 - DUMP TRUCK	C30R-2 - DUMP TRUCK
VIO38 U - Excavator	VIO45 - Excavator				

Wacker Neuson

38Z3 VDS - Excavator	2503 - Compact Excavator	2702 FORCE - Excavator	2902 FORCE - Excavator	3001 S - DUMP TRUCK	3001 - DUMP TRUCK
3003 - Excavator	4001 SPEED - DUMP TRUCK	501S - SKID STEER	EZ38 - Excavator		

Komatsu Engine Models

3D88E-5P-BA	3D88E-6BP-DA	3D88E-6	3D88E	3D88E-5NFA

Gehl

340 - Articulated Loader	KL168 - Loader	KL178 - Loader	2026 - Skid Steer	3640E - Skid Steer	3840 - Skid Steer
SL3635 - Skid Steer	SL3840 - Skid Steer	SL3935 - Skid Steer	1448 - Asphalt Paver	AP1448 + - Asphalt Paver	AL 240 - WHEEL LOADER

Hi-Power Genset Model

HYW-13 T5	HYW-13 M5	HYW-14 M6	HYW-14 T6

Volvo

EC27C - Excavator	ECR38 - Excavator

Mustang

350Z NXT2 - Skid Steer	2026 - Skid Steer	2032 - Skid Steer	AL 206 - WHEEL LOADER	AL 306 - WHEEL LOADER

Takeuchi

TB135	TB138FR	TB230	TB235	TB250	TB 235 HYBRID - Excavator

Komatsu

PC35MR-2NA - Excavator	PC35MR-2-NB - Excavator	PC35MR-2-S - Excavator	PC35MR-2-SB - Excavator	PC30MR-3 - Excavator	PC35MR-2 - Excavator
				PC35MR-2-A - Excavator	PC35MR-2-B - Excavator
PC35MR-3 - Excavator	PC35R-8 - Excavator	WA30-6 - Wheel Loader			

Hitachi

ZX27U-2	ZX30UR-2	ZX30U-2	ZX35U-2	ZX27U-3	ZX27U-3F
ZX27UNA-3	ZX29U-3	ZX29U-3F	ZX30U-3	ZX30U-3F	ZX30U-3U
ZX30UR-3	ZX30UR-3U	ZX33U-3	ZX33U-3F	ZX35U-3U	ZX35UNA-3 Mini Excavator
ZX38U-3	ZX38U-3F	ZX33 U 5 - Excavator	ZX38 U 5 - Excavator		

Vermeer

SC372 - Stump Cutter

New-Holland

T3010	E30B	E30BSR	E35B	E35BSR	E36B

Kobelco

CX31 - Excavator	CX31B - Excavator	CX36 - Excavator	CX36B - Excavator	SK30-5 - Excavator	SK35SR-5 - Excavator
Z82 - Excavator	Z83 - Excavator	Z83RP - Excavator	Z83RP CHN - Excavator	SK30 SR - Excavator	

Case

CX31B	CX36B

Hyundai

R35Z7 - Excavator	R35Z7A - Excavator	R35Z-9 - Excavator

Marine Pleasure

3JH4	3JH5

Genmac

DUPLEX G15YO	DYNAMIC G15YS

Rcg-Power

R-YM13

Wacker

3001 - Dumper	TTR4400 - Tractor

Landini

4645 ISM-ARM	4645 VRM

Cub Cadet

EX2900 - Tractor	EX3200 - Tractor	SX3100 - Tractor

Dixie Chopper

XWD3500 - Mower	XWD5000 - Mower

Doosan

35DX - Mini excavator

Isuzu

3CE1-BDZP1	3CE1-BDZP2	3CE1-BDZP3	3CE1-BDZP4	3CE1-BDZP5	3CE1-GZG01
3CE1-BGZG1	3CE1-KZP01	3CE1-KZP02	3CE1-KZP03	3CE1-BMZP1	3CE1-BPZP01
3CE1-WZS01	3CE1-BWZS1				

AMMANN

ARX23 K - ROLLER
ARX23 - ROLLER
ARX26 K - ROLLER
ARX26 - ROLLER
AV23 K - ROLLER
AV23 - ROLLER
AV23-2 K - ROLLER
AV23-2 - ROLLER
AV26 K - ROLLER
AV26 - ROLLER
AV26-2 K - ROLLER
AV26-2 - ROLLER
AV32 K - ROLLER
AV32-2 K - ROLLER
AV32-2 - ROLLER
AV33-2 - ROLLER
AV40-2 K - ROLLER
AV40-2 - ROLLER

FUCHS

F 1000 - WHEEL LOADER
F 1100 - WHEEL LOADER
F 1200 - WHEEL LOADER
F 900 - WHEEL LOADER

ERA

3001 - DUMP TRUCK

GEHLMAX-IHI

MB 35 VX - Excavator

JOHN DEERE

27D - Excavator
35D - Excavator

KRAMER

180 - WHEEL LOADER
350 - WHEEL LOADER

SUNWARD

SWE30UB - Excavator

NEW HOLLAND

E 30.2 SR - Excavator
E 35.2 SR - Excavator

THWAITES

ALLDRIVE 1.5 TO HD - DUMP TRUCK
ALLDRIVE 23 TO DR - DUMP TRUCK
ALLDRIVE 23 TO V - DUMP TRUCK

AIRMAN

AX29 U 5 - Excavator
AX30 UCGL 4 - Excavator
AX33 U 5 - Excavator
AX33 U 6A - Excavator
AX35 UCGL 4 - Excavator
AX38 U 5 - Excavator
AX38 U 6A - Excavator
AX48 U 5 - Excavator

YANMAR 4TNV88

EQUIPMENT MODELS

Yanmar Engine Models

4TNV88-BDAW
4TNV88-BDSA
4TNV88-BPNKR
4TNV88-BPTB
4TNV88-BDAW
4TNV88-BPNS
4TNV88-BXPYBD
4TNV88-DSA
4TNV88-DSAP
4TNV88-GGEH
4TNV88-GGEP
4TNV88-GKM
4TNV88-GYM
4TNV88-LU2
4TNV88-NBK
4TNV88-PTBZ1
4TNV88-QTB
4TNV88-XMS
4TNV88-XWL
4TNV88-N5FA
4TNV88-K5FD
4TNV88-BPHB
4TNV88-BDHKS1
4TNV88-BNBK
4TNV88-DAE
4TNV88-ZPBV

Yanmar

YEG230DSLC - Generator
YEG230DSLS - Generator
YEG230DTLC - Generator
YEG230DTLS - Generator
VIO45 - Excavator
VIO45-5B - Excavator
VIO50 - Excavator
VIO55-5B - Excavator
VIO55 - Excavator
VIO57 U - Excavator

Gehl

AP1648 - Paver
353 - Excavator
373 - Excavator
503Z - Excavator
KL278 - Skid Steer
KL398 - Skid Steer
SL4240 - Skid Steer
4240E - Skid Steer
540 - Skid Steer
540R - Skid Steer
2044 - Skid Steer
2054 - Skid Steer
4240 - Loader
940 - Loader
2041 - Loader
AL 440 - WHEEL LOADER
AL 540 - WHEEL LOADER

Wacker Neuson

3503 VDS - Excavator
50Z3 VDS - Excavator
280 - Wheel Loader
3503 - Excavator
701S - SKID STEER
3703 - Excavator
50Z3 - Excavator

Volvo

MC60 - Skid Steer
MC60B - Skid Steer
EC35 - Excavator
C45 - Excavator
EC45 - Excavator
ECR48C - Excavator

Hi-Power-Genset-Model

HYW-17 T5
HYW-20 M5
HYW-20 M6
HYW-20 T6
HRYW-17 T5
HRYW-20 T6

Mustang

450Z NXT2 - Excavator
1350R - Skid Steer
1500R - Skid Steer
2041 - Skid Steer
2044 - Skid Steer
2054 - Skid Steer
2054B
AL 406 - WHEEL LOADER
AL 506 - WHEEL LOADER

Takeuchi

TB53RF - Excavator
TB145
TB153FR - Excavator
TB53FR
TB250
TB 250 - Excavator
TL 130 - SKID STEER

New-Holland

T3030 Tractor
E55BX

Hitachi-Excavators

ZX40U-2
ZX50U-2
ZX40U-3
ZX40U-3F
ZX40U-3U
ZX40UR-3
ZX40UR-3D
ZX40UR-3DU
ZX40UR-3U
ZX48U-3
ZX48U-3F
ZX50U-3
ZX50U-3F
ZX50U-3U
ZX50UNA-3
ZX52U-3
ZX52U-3F

Kobelco-Excavators

CX50
CX50B
CX55B
Z76RP
Z84
Z85
Z85RP CHN
Z89

Kohler

20EOZD Marine Generator

Komatsu Engine Models

4D88E-5X-AB
4D88E-5X-AC
4D88E-6
4D88E-5X-BB
4D88E-5X-BC
4D88E
4D88E-5NFA
4D88E-5KFD

Komatsu

PC40MR-2 - Excavator | PC40MR-2-AC - Excavator | PC40MR-3 - Excavator | PC45MR-3 - Excavator | PC45R-8 - Excavator | PC50MR-2 - Excavator
PC50MR-2-AC - Excavator | PC50MR-3 - Excavator | PC55MR-3 - Excavator | PC58UU-3 - Excavator
SK818-5 - Excavator | SK714-5 - Skid Steer | SK815-5 - Skid Steer
WA50-6 - Loader

Clark Equipment

C20SD

Genmac

DUPLEX G20YO-E | DYNAMIC G20YS-E

Husqvarna

FS4800D

Jcb

G20RX | G22QX | G22X

Rcg-Power

R-YM15 | R-YM18

Terex

TC50 - Excavator

Loadlifter

AR50 - Loader

Landini Tractors

2-050 | 4655 ISM-ARM | 4655 VRM

Marine Pleasure

4JH4E | 4JH5E | 4JH4-TE | 4JH4-HTE

Cub Cadet

EX450 - Tractor | LX450 - Tractor

AMMANN

ARX36 - ROLLER | ARX40 K - ROLLER | ARX40 - ROLLER | ARX45 - ROLLER

FUCHS

F 1144 - WHEEL LOADER | F 1244 - WHEEL LOADER | F 1300 - WHEEL LOADER

GEHLMAX-IHI

MB 50 VX - Excavator | MB 55 VX - Excavator

HITACHI

ZX48 U 5 - Excavator | ZX55 U 5 - Excavator

IHIMER

50 VX - Excavator | 55 VX - Excavator

PALAZZANI

PL 35 - WHEEL LOADER

AIRMAN

AX40 UCGL 4 - Excavator | AX48 U 6A - Excavator | AX50 UCGL 4 - Excavator | AX52 U 5 - Excavator | AX55 U 6A - Excavator

VENIERI

2.63 C - WHEEL LOADER

THWAITES

ALLDRIVE 30 TO HR - DUMP TRUCK | ALLDRIVE 35 TO DR - DUMP TRUCK | ALLDRIVE 35 TO V - DUMP TRUCK | ALLDRIVE 40 TO DR - DUMP TRUCK | ALLDRIVE 40 TO V - DUMP TRUCK

YANMAR 3TNV88C, COMMON RAIL INJECTION

EQUIPMENT MODELS

Yanmar Engine Models

3TNV88C-DDT | 3TNV88C-DYEM | 3TNV88C-DGP | 3TNV88CT-MJT | 3TNV88C-DTR | 3TNV88C-DTR2
3TNV88C-DTR3 | 3TNV88C-DTR4 | 3TNV88C-NKAH | 3TNV88C-DSS1 | 3TNV88C-DSAM | 3TNV88C-KKTF
3TNV88C-MJTV

JOHN DEERE

1570 - Front Mower | 1575 - Front Mower | 1580 - Front Mower | 1585 - Front Mower | Z997R - Mower | 3039R - Tractor

YANMAR

V3-7 - Wheel Loader

FINN

B70 - Straw Blower | T90 - Hydro Seeder | T120 - Hydro Seeder | BB302 - Material Blower

GODWIN PUMP

CD100S - Pump

YANMAR 4TNV88C, COMMON RAIL INJECTION

EQUIPMENT MODELS

Yanmar Engine Models

4TNV88C-DHKS
4TNV88C-DYEM
4TNV88C-KKTF
4TNV88C-KMS
4TNV88C-PHB
4TNV88C-PHB5
4TNV88C-KNKR
4TNV88C-DHKS
4TNV88C-DHQ
4TNV88C-PYB
4TNV88C-STB
4TNV88C-PBV
4TNV88C-DSS1
4TNV88C-DSAM

John Deere

184 G-tier - Wheel Loader
50G - Compact Excavator

GEHL

R150 - Skid Steer Wheel Loader

HITACHI

ZX40U - Excavator
ZX50U-5B - Excavator

WACKER NEUSON

280 - Wheel Loader

TAKEUCHI

TB235 - Excavator

KOBELCO

Z92 - Excavator

YANMAR

VIO45-5 - Excavator
VIO45-6A - Excavator

HUSQVARNA

FS5000D - Concrete Cutter

AIRMAN

PDS175S-5C3 - Compressor

YANMAR 4TNV94L

EQUIPMENT MODELS

Yanmar Engine Models

4TNV94L-NCKM	4TNV94L-NCKMK	4TNV94L-NCKSK	4TNV94L-NDL	4TNV94L-NHZ	4TNV94L-NWI
4TNV94L-PDBWE	4TNV94L-PDBWK	4TNV94L-PHYBC	4TNV94L-PHYBW	4TNV94L-PIK	4TNV94L-PIKA1
4TNV94L-PIKA2	4TNV94L-PLY	4TNV94L-SBK	4TNV94L-SFN	4TNV94L-SXZ	4TNV94L-XDB
4TNV94L-XDBC	4TNV94L-XDBK	4TNV94L-XDBKC	4TNV94L-XHYB	4TNV94L-XHYBC	4TNV94L-PHYBY

Hyundai

60-9S - Mini Excavator	R60W-9S - Mini Excavator	R55-7 - Excavator	R55W-7 - Excavator

Landini

GLOBUS 55 - Tractor	TREKKER 60F - Tractor

Daewoo

SOLAR 55-V PLUS - Excavator

Komatsu

D21A-8-W - Crawler Dozer	D21P-8-W - D21P-8	D20A-8 - Crawler Tractor	D20P-8 - Crawler Tractor	D20PL-8 - Crawler Tractor	D20PLL-8 - Crawler Tractor
D21A-8 - Crawler Tractor	D21A-8E0 - Crawler Tractor	D21A-8T - Crawler Tractor	D21P-8 - Crawler Tractor		

Komatsu Engine Model

4D94LE-2Z-AD	4D94LE-2Z-AE	4D94LE-2Z-AB	4D94LE-2	4D94LE-2Z-AC	4D94LE

Volvo

EC55B - Excavator	ECR58 - Excavator	EW55B - Excavator	EC55C - Excavator	ECR58D - Excavator	EC55C - Excavator

YANMAR 4TNV98

EQUIPMENT MODELS

Yanmar Engine Models

4TNV98-EPDBW	4TNV98-EPHYB	4TNV98-EPHYBU	4TNV98-EPIK	4TNV98-EPIKA	4TNV98-EPIKB
4TNV98-ESDB6	4TNV98-ZNGT	4TNV98-ZNMS	4TNV98-ZNMS2	4TNV98-ZNTBL	4TNV98-ZQTB
4TNV98-ZQTBZ	4TNV98-ZWDB8	4TNV98-ZWDB8F	4TNV98-X2FB	4TNV98-ZPIKB	

Yanmar

ViO80-1 - Excavator	ViO82 - Excavator

Hi Power-Gensets

HYW-30 M5	HYW-35 M6	HYW-35 T5	HYW-35 T6	HRYW-35 T5	HRYW-35 T6

Doosan

D20S-5 - Lift Truck	D30S-5 - Lift Truck	DX60R - Excavator	DX55 - Excavator	DX55W - Excavator	DX80R - Excavator

Gehl

4640E Power2 - Skid Steer	5240 - Skid Steer	R190 - Skid Steer	SL4640E - Skid Steer	5240E Power2 - Skid Steer	CTL65 - Track Loader
RS5-19 - Telescopic handler	RT175 - Track Loader				

Takeuchi

TB175	TB180FR	TL230

Landini

ALPINE 65 - Tractor

Ditch Witch-Directional Boring System

DX55	DX55W

Volvo

MC80B - Skid Steer	EC55C - Excavator	EW60C - Excavator	ECR88 - Excavator	ECR88C - Excavator	MC80 - Skid Steer

Wacker Neuson

8003 Pivot arm - Excavator	6003 Mono arm - Excavator	75Z3 - Excavator

Komatsu

BM653F - Hydra Screen	CK20-1 - Skid Steer	CK25-1 - Skid Steer	FD20T-16 - Forklift	FD28T-16 - Forklift	FD35AT-16 - Forklift
	PC75R-2 - Excavator	PC80MR-3 - Excavator			

Mustang

519 - Telehandler	1750RT - Track Loader	MTL316 - Track Loader	2056 Series II - Skid Steer	2066 - Skid Steer	

Terex

TW70 - Excavator

Manitou

MT 5519XT

Bobcat

E60	E80

Kohler-Generators

25EORZ	28EQZD	30EORZDB

Daewoo

SOLAR 75V

Hyundai

R557A	R55 9	R55W7A	R55W9	R80 7	R80 7A

Hitachi

ZX60USB-3	ZX60USB-3F	ZX60USBNA-3	ZX65USB-3F	

YANMAR 4TNV98 D2

EQUIPMENT MODELS

Yanmar Engine Models

4TNV98-GECS	4TNV98-GGB1B	4TNV98-NSA2	4TNV98-GGE	4TNV98-GGEH	4TNV98-GGEHC
4TNV98-GGEP	4TNV98-GGK	4TNV98-GGKM	4TNV98-GPGE	4TNV98-NKTC	4TNV98-NSAP
4TNV98-NWI	4TNV98-NXG	4TNV98-SBK	4TNV98-SCKS	4TNV98-SDF	4TNV98-SSA
4TNV98-SSU	4TNV98-STB1	4TNV98-VDB24	4TNV98-VHYB	4TNV98-VNS	4TNV98-VTBZ2
4TNV98-VTBZ	4TNV98-XTBW	4TNV98-YTB	4TNV98-VTBZC	4TNV98-VTBZC1	4TNV98-WTB
4TNV98-X2FB	4TNV98-XDB	4TNV98-XKMR	4TNV98-YTBL	4TNV98-YTBL1	4TNV98-YTBL2

Wacker Neuson

6503 Mono arm - Excavator					

Takeuchi

TL130	TB175 - Excavator				

Genmac

ALPHA G30YO*	STRONG G30YS*				

Rcg-Power

R-YM25	R-YM30	R-YM33			

Komatsu

PC75R-2 - Midi Excavator	PC75R-2HD - Midi Excavator	PW75R-2 - Excavator	WA90-3 - Wheel Loader	WA95-3 - Wheel Loader	WB70A-1 - Backhoe

Ditch Witch-Directional Boring Systems

DX55	DX55W				

Doosan

D20S-5 - Lift truck	D30S-5 - Lift truck	DX55 - Crawler Excavator	DX55W - Crawler Excavator	DX60R - Crawler Excavator	DX80R - Crawler Excavator

Hitachi-Excavators

ZX60USB-3	ZX60USB-3F	ZX60USBNA-3	ZX65USB-3F		

YANMAR 4TNV98C, NON-TURBO, COMMON RAIL INJECTION

EQUIPMENT MODELS

Yanmar Engine Code

4TNV98C-MRC	4TNV98C-NAS	4TNV98C-NGL	4TNV98C-NGT	4TNV98C-NMS	4TNV98C-NMS2
4TNV98C-NMS2V	4TNV98C-NMSL	4TNV98C-NRSS	4TNV98C-NSS1	4TNV98C-NTS	4TNV98C-NYEM
4TNV98C-PHYB	4TNV98C-PHYB1	4TNV98C-PIK	4TNV98C-PJLW	4TNV98C-PJLW25	4TNV98C-PJLW5
4TNV98C-QRC	4TNV98C-SJLW	4TNV98C-SJLW5	4TNV98C-VDB6	4TNV98C-VDB8	4TNV98C-WBV
4TNV98C-WBV2	4TNV98C-WHB	4TNV98C-WHB5	4TNV98C-WHBW5		

John Deere

204L - Wheel Loader	244K - Wheel Loader	304L - Wheel Loader	318E - Skid Steer	320E - Skid Steer	320G - Skid Steer
			60G - Excavator		

Gehl

R165 - Skid Steer	R190 - Skid Steer	RS5-19 - Telehandler	RT165 - Track Loader	V210 - Skid Steer	VT210 - Track Loader

Hitachi

ZX60USB-3 - Excavator	ZX60USB-5 - Excavator	ZX75USB-5 - Excavator	ZX85USB-5 - Excavator

Hyundai

R55-9A - Excavator

IHI

55N - Excavator

Liebherr

L506C - Wheel Loader	L507 - Wheel Loader	L508C - Wheel Loader

Mustang

1900R - Skid Steer

Yanmar

YH460 - Combine	YH470 - Combine	YH570 - Combine	SSV1091FSC - Sprayer	S190R-1 - Skid Steer	VIO80-1 - Excavator
B7-6 - Excavator					

YANMAR 4TNV98T

EQUIPMENT MODELS

Yanmar Engine Models

4TNV98T-GECS	4TNV98T-GGE	4TNV98T-GGEH	4TNV98T-GGEHC	4TNV98T-GGEP	4TNV98T-GPGE
4TNV98T-N2FN	4TNV98T-NDI	4TNV98T-NLANG	4TNV98T-NNSV	4TNV98T-NSA	4TNV98T-NSA2
4TNV98T-NSAP	4TNV98T-NSV	4TNV98T-NU24	TNV98T-SBK	4TNV98T-SHYB	4TNV98T-SHYB24
4TNV98T-SFN					

Komatsu

CK30-1 - Compact Track Loader	CK35-1 - Compact Track Loader	SK1020-5 TURBO - Skid Steer Loader	SK1020-5N - Skid Steer Loader	SK1026-5 TURBO - Skid Steer Loader	SK1026-5N - Compact Track Loader
WA90-3 - Wheel Loader	WA95-3 - Wheel Loader				

Hi Power

HYW-40	HYW-45	HYW-45 T5	HYW-45 T6	HRYW-45 T5	HRYW-45 T6
M5	M6				
EAGLE TUGSTT12	EAGLE TUGSTT10				

Tractors

T80 4WD	T80N 4WD	EG782HMT	EG782M 4WD

PALAZZANI

PL 155 - WHEEL LOADER	PL 165 - WHEEL LOADER

Terex

TC85 - Excavator

Kohler

40WORZD

Komatsu Engine Model

S4D98E-2NFN

Genmac

ALPHA G40YO*	STRONG G40YS*

RCG-Power

R-YM40	V270	V330	CTL75	2700V	Yan S22
5640E	6640E	2100RT	Yan T210		

Isuzu

4GC1T

NEUMEIER

NR 8.8 D - EXCAVATOR	NR 8.8 - EXCAVATOR

SHANDONG LINGONG

LG685 - EXCAVATOR

TAKEUCHI

TB 290 CM - EXCAVATOR	TB 290 CV - EXCAVATOR

GEHL

SL 5640 DXT DUAL - SKID STEER	SL 5640 DXT - SKID STEER	SL 5640 SXT DUAL - SKID STEER	SL 5640 SXT - SKID STEER	SL 6640 DXT DUAL - SKID STEER	SL 6640 DXT - SKID STEER
SL 6640 SXT DUAL - SKID STEER	SL 6640 SXT - SKID STEER	SL V 270 DXT DUAL - SKID STEER	SL V 270 SXT DUAL - SKID STEER	SL V 330 DXT DUAL - SKID STEER	SL V 330 SXT DUAL - SKID STEER

YANMAR 4TNV98T 2

EQUIPMENT MODELS

Yanmar Engine Models

4TNV98T-ZGGE	4TNV98T-ZGGEH	4TNV98T-ZGPGE	4TNV98T-ZNDI	4TNV98T-ZNIKB	4TNV98T-ZNMS
4TNV98T-ZNTB	4TNV98T-ZNTBL	4TNV98TL-ZNTG	4TNV98T-ZNSA2D	4TNV98T-ZSBK	4TNV98T-ZSLY
4TNV98T-ZSOM	4TNV98T-ZSTBW	4TNV98T-CR	4TNV98T-ZXNMS	4TNV98T-ZXNMS2	4TNV98T-ZXWTB
4TNV98T-SBV					

Yanmar

SV100

Mustang

2076 - Skid Steer	2086 - Skid Steer	2700V - Skid Steer	3300V - Skid Steer	2100RT - Track Loader	MTL320 - Track Loader

Gehl

5640E - Skid Steer	6640E - Skid Steer	V270 - Skid Steer	V330 - Skid Steer	CTL75 - Track Loader	RT210 - Track Loader

Takeuchi

TB175W - Excavator	TB285 - Excavator	TL240 - Crawler loader	Eagle Tugs - TT12	Eagle Tugs - TT10	Ergit Series Tractor

Hi Power

HYW-40 M5	HYW-45 M6	HYW-45 T5	HYW-45 T6	HRYW-45 T5	HRYW-45 T6

Volvo

MC90 - Skid Steer	MC90B - Skid Steer	MC110B - Skid Steer	MT11 - Skid Steer	MC80 - Skid Steer

Isuzu

4GC1T

YANMAR 4TNV98CT, TURBO, COMMON RAIL INJECTION

EQUIPMENT MODELS

Yanmar Engine Code

4TNV98CT-NMS
4TNV98CT-NMSL
4TNV98CT-NMSLV
4TNV98CT-NSS1
4TNV98CT-PJLW
4TNV98CT-PJLW5
4TNV98CT-VBV
4TNV98CT-VPR
4TNV98CT-WTB
4TNV98CT-WTBZ
4TNV98CT-WTBZ1
4TNV98CT-XNGL
4TNV98CT-XNJSL
4TNV98CT-XNMSLV
4TNV98CT-XNMSV

Gehl

R220 - Skid Steer
R260 - Skid Steer
RT185 - Track Loader
RT215 - Track Loader
V230 - Skid Steer
V275 - Skid Steer
V330 - Skid Steer
VT230 - Track Loader
VT275 - Track Loader

John Deere

210G - Tractor Loader
210L EP - Tractor Loader
244L - Wheel Loader
310G - Backhoe
310L EP - Backhoe
320G - Skid Steer
324G - Skid Steer
324K - Wheel Loader
324L - Wheel Loader
325G - Skid Steer
326E - Skid Steer
323E - Skid Steer

Liebherr

L509 - Wheel Loader

Mustang

2200R - Skid Steer

Takeuchi

TB290 - Skid Steer
TB375 - Skid Steer

Yanmar

SV100-2 - Excavator
S220R-1 - Skid Steer

SANY

SY75C - Excavator

TAKEUCHI

TB290-2 - Excavator

YANMAR 4TNV106

EQUIPMENT MODELS

Yanmar Engine Models

4TNV106T
4TNV106-GGB1
4TNV106-S2FB
4TNV106-S2FA
4TNV106T-GGB1
4TNV106T-GGE
4TNV106T-GGL
4TNV106T-S2FA
4TNV106T-S2FC
4TNV106T-W2FB
4TNV106T-XTBL1
4TNV106T-XTBL(*)
4TNV106T-XTBL2

Takeuchi

TL150

Komatsu

BM393 - Hydra Screen
BM595 - Hydra Screen
BM798 - Hydra Screen
PC95R-2 - Excavator
PW95R-2 - Excavator
WB91R-2 - Excavator
PC110R-1 - Midi Excavator
PW110R-1 - Mobile Excavator
WB140-2N - Backhoe
WB140PS-2N - Backhoe
WB150-2N - Backhoe
WB150AWS-2N - Backhoe
WB150PS-2N - Backhoe

Rcg-Power

R-YM50
R-YM60

CUMMINS 4BT 3.9 PISTON (M): 7163

EQUIPMENT MODELS

Cummins CPL's

690
727
730
762
763
817
857
858
971
1201
1202
1268
1277
1508
1287
1631
1659
2021
2340
2414

Case IH

5120 - Tractor
5220 - Tractor
8840 - Windrower

Case

450C - Crawler
455C - Crawler
550 - Crawler
550E - Crawler
550G - Crawler
650G - Crawler
9010 - Crawler
570LXT - Backhoe
580K - Backhoe
580L - Backhoe
580SE - Backhoe
580SK - Backhoe
580SL - Backhoe
688 - Crawler Excavator
860 - Trencher
W11B - Wheel Loader
95XT - Skid Steer

Hyundai

R140W-9S - Wheeled Excavator
R140LC-9S - Wheeled Excavator

Timberjack

230 - Forwarder

YTO

LRS1016 - Pneumatic Roller

CUMMINS 4BTA 3.9 PISTON (M): 7156

EQUIPMENT MODELS

Cummins CPL's

594	595	696	710	711	793
826	937	961	1173	1278	1520
1521	1525	1526	2377	741 Marine	

Ingersoll Rand

PF161 - Asphalt Pavers

Case IH

1800 - Cotton Harvesters

5120 - Tractor

5150 - Tractor

6590 - Tractor

Case

9010B - Excavator

9020 - Excavator

Skidder

Ranger F65G

CUMMINS 4B 3.9 PISTON (M): 6223

EQUIPMENT MODELS

Cummins CPL's

591	681	721	725	791	843
895	981	0591	0681	0721	0591
0721	0791	0895	0725	1172	1259
1312	1522	1932	0791	0843	0895
0981	0681	0725	0843	0981	

CASE-IH

6000 - Windrower	6500 - Windrower	8820 - Windrower	8830 - Windrower

CASE

450C - Crawler	455C - Crawler	550 - Crawler	550E - Crawler	480E - Backhoe	480E LL - Backhoe
480F - Backhoe	480F LL - Backhoe	580L Series 1 - Backhoe	580K - Backhoe	580SE - Backhoe	580SK - Backhoe
584E - Forklift	585E - Forklift	586E - Forklift	660 - Trencher	760 - Trencher	1840 - Skid Steer Loader
1845C - Skid Steer Loader					

CUMMINS 4BTA 3.9 PISTON (M): 8673

EQUIPMENT MODELS

Cummins CPL's

1965	1966	1967	2109	2142	2144
2302	2351	2359	2478	2528	2623
2672	2808	2857	2881		

Case IH

8860 - Windrower	8870 - Windrower

CASE

90 XT - Skid Loader	95 XT - Skid Loader	570 LXT - Series 2	580 SL - Series 2	580 L - Series 2	590 SL - Series 2
650G - Crawler	686G - Telescopic handler	686 GXR - Telescopic handler	9010B - Excavator	9020B - Excavator	8860 - Windrower
			8870 - Windrower		

Skidder

Ranger
F65G

Ingersoll Rand

PF161 - Asphalt Paver

CUMMINS 6BT 5.9 PISTON (M): 7163

EQUIPMENT MODELS

Cummins CPL's

597	692	716	729	761	804
807	856	938	943	947	948
949	950	994	1160	1163	1168
1189	1207	1245	1246	1266	1279
1288	1289	1440	1627	1685	2049
2112	2413				

Terex

VDA 600 - Asphalt paver	VDA 621 - Asphalt paver	VDA 700 - Asphalt paver

Case IH

1896 - Tractor	5140 - Tractor	5240 - Tractor	5250 - Tractor

Case

W14B - Wheel Loader	W14C - Wheel Loader	621 - Wheel Loader	621B - Wheel Loader	680L - Backhoe	780C - Backhoe
780D - Backhoe	850D - Crawler	850E - Crawler	855D - Crawler	855E - Crawler	855G - Crawler
880D - Crawler	888 - Excavator	1085B - Excavator	1085C - Excavator	1086B - Excavator	1088 - Excavator
1150E - Excavator	1150G - Excavator	1155E - Excavator	9030 - Excavator	9030B - Excavator	8850 - Windrower
W14B - Wheel Loader	W14C - Wheel Loader				

Hyundai

R210W-9S - Wheeled Excavator	R220LC-9S - Crawled Excavator

Stavostroj

VV1400D - Vibratory Compactor	VV900 - Vibratory Compactor	VV900D - Vibratory Compactor

YTO

YL25	LGS1822B

CUMMINS 6BTA 5.9 PISTON (M): 7156

EQUIPMENT MODELS

Cummins CPL's

599	600	698	712	715	742
792	834	912	940	961	962
983	998	1174	1209	1518	1519
1523	1524	1581	2050	2530	2891

CASE Ih

1640 - Combine	1644 - Combine	1822 - Cotton Picker	2022 - Cotton Picker	2096 - Tractor	1800 - Cotton Harvester

Skidder

Ranger F66DS	Ranger F66G	Ranger F67	Ranger F667	Ranger F67G	Ranger G67G

YTO

LRS2030 - Pneumatic Roller

CUMMINS 6B 5.9 PISTON (M): 6223

EQUIPMENT MODELS

Cummins CPL's

596	691	714 - Marine Engine	791 - Marine Engine	802	845
0596	0691	0714	0802	960	999
1320	1403	1433	0845	0960	0999
0791					

Case IH

5130 - Tractor	5230 - Tractor

Case

680K - Backhoe	680L - Backhoe	850D - Crawler	850E - Crawler	855D - Crawler	855E - Crawler
W14B - Wheel Loader	W14C - Wheel Loader				

CUMMINS 6BT 5.9 PISTON (M): 6632

EQUIPMENT MODELS

Cummins CPL's

1551	1552	1553	1888	1895	1914
1915	1916	2000	2175	2243	2249
2252	2253	2305	2347		

Terex

VDA 600 - Asphalt Paver	VDA 621 - Asphalt Paver	VDA 700 - Asphalt Paver

Stavostroj

VV1400D - Vibratory Compactor	VV900 - Vibratory Compactor	VV900D - Vibratory Compactor

YTO

YL25 - Pneumatic Roller	LGS1822B - Static Smooth Drum Roller

Liu Gong

614H - Vibratory Compactor

CUMMINS 6BTA 5.9 PISTON (M): 2571

EQUIPMENT MODELS

Cummins CPL's

1549	1550	1815	1816	1863	1901
1959	1968	2022	2023	2174	2265
2268	2292	2308	2346	2349	

Skidder

F66G - Ranger	F66DS - Ranger	F67 - Ranger	F67G - Ranger	G67G - Ranger	F667 - Ranger

LiuGong

614H - Vibratory compactors

YTO

LRS2030 - Pneumatic Roller

CUMMINS 6BTA 5.9 PISTON (M): 8673

EQUIPMENT MODELS

Cummins CPL's

1902	1948	1961	1962	2014	2015
2016	2071	2122	2146	2296	2303
2372	2373	2416	2417	2538	2868

LiuGong

614H

Ingersoll Rand

PF161 - Asphalt Paver

Skidder

Ranger F66DS	Ranger F66G	Ranger F67 Cable	Ranger F67G	Ranger G67G	Ranger F667

Case IH

8860 - Windrower	8870 - Windrower

Case

90 XT - Skid Loader	95 XT - Skid Loader	570 LXT - Series 2	580 L - Series 2	590 SL - Series 2	621C - Wheel Loader
650 G - Crawler	686 G - Telescopic Handler	686 GXR - Telescopic Handler	9010 B - Excavator	9020 B - Excavator	

YTO

LRS2030 - Pneumatic Roller

Komatsu

WA200-3 - Wheel Loader	WA200-5 - Wheel Loader	WA200-5 SS - Wheel Loader	WA250-3 - Wheel Loader	WA250-3L - Wheel Loader	WA250-5 - Wheel Loader
					WA250L-3 - Wheel Loader
WA250L-5 - Wheel Loader	WA250PT-3 - Wheel Loader	WA250PT-3L - Wheel Loader	WA250PT-3MC - Wheel Loader	WA250PT-5 - Wheel Loader	WA250PTL-5 - Wheel Loader
WA250PZ-5 - Wheel Loader	WA320-3 - Wheel Loader	WA320-3CS - Wheel Loader	WA320-5 - Wheel Loader	WA320-5L - Wheel Loader	

CUMMINS 6BTA 5.9 ISB PISTON (M): 6153

EQUIPMENT MODELS

Cummins CPL's

2024	2076	2077	2098	2279	2280
2446	2447	2448	2496	2497	2498
2512	2513	2514	2515	2516	2517
2518	2519	2569	2570	2571	2595
2596	2597	2616	2617	2618	2619
2660	2661	2662	2663	2685	2686
2687	2865	2866	2902	2903	2904
2905	8030	8031	8032	8033	

CUMMINS 4BT 4.5 QSB

EQUIPMENT MODELS

Cummins CPL's

1700	1701	2743	8725	8754	8755
8756	41100	41472	41700	41701	41703
42743	43172	44195			

Case

4000V - Skid Steer

V400 - Skid Steer

Antec

PW5000 - Asphalt Paver

Komatsu

WA200-6 - Wheel Loader

WA200PZ-6 - Wheel Loader

Hyundai

HL730-9S - Front Loader

Dynapac

CA250

Vibratory Compactors

Ammann - ASC110D

Ammann - ASC110HD

Ammann - ASC130D

Ammann - ASC130HD

Ammann - ASC150HD

Ammann - ASC150D

Case - SV212

Case - SV216

CUMMINS 6BT 5.9 QSB PISTON (M): 7416

EQUIPMENT MODELS

Cummins CPL's

8186	8187	8217	8236	8237	8276
8296	8298	8300	8304	8305	8306
8339	8340	8341	8400	8428	8485
8487	8488	8553	8554	40568	

Ingersoll Rand

PF2181 - Asphalt Paver	PF3172 - Asphalt Paver	PF3200 - Asphalt Paver	PF4410 - Asphalt Paver	PF5510 - Asphalt Paver

TADANO

GR300EX - Rough Terrain Crane

Terex

CR452 - Asphalt Paver	CR452RX - Asphalt Paver	CR462 - Asphalt Paver	CR462S - Asphalt Paver	CR552 - Asphalt Paver	CR552RX - Asphalt Paver
CR562S - Asphalt Paver	CR562RX - Asphalt Paver	CR562 - Asphalt Paver	VR452RX - Asphalt Paver		

Dynapac

PL600S - Cold Planer

Madill

800 - Harvester	1800 - Harvester

CUMMINS 6BT 6.7 QSB, CM850

EQUIPMENT MODELS

Cummins CPL's

426	427	656	1584	1610	1629
2605	8466	8510	8610	8611	8615
8733	40426	40427	40656	41452	41584
41586	41610	41629	42605	42827	43068
43293	43460	43858	43859	43861	43862

Dynapac

SD2500CS - Asphalt Paver	CA260PD - Vibratory Compactor	CA702PD - Vibratory Compactor	CA612PD - Vibratory Compactor	CA602PD - Vibratory Compactor	CA512PD - Vibratory Compactor
CA362PD - Vibratory Compactor	CT3000 - Vibratory Compactor	CA260D - Vibratory Compactor			

Hyundai

HL757-9S	HL749-9

TADANO

GR300XL - Rough Terrain Crane	10010MX - Crawler Crane	GR350XL-2 - Rough Terrain Crane	GR350XL-1 - Rough Terrain Crane

JCB

427	437	437 ZX

Ammann - Vibratory Compactors

ASC200HD	ASC200D	ASC250D	ASC250HD

Ingersoll Rand

PF6110	PF6160	PF6170

Vogele Vision

5100-2	5103-2	5200-2	5203-2

Svedala Demag

DF145CS	DF145C

Skidder

220C - Harvester	230C - Harvester	234 - Harvester	T234 - Harvester	250B	T250B
H250B	604C	610C	620C	E625C	718E - Feller Buncher
720E - Feller Buncher	724E - Feller Buncher	726E - Feller Buncher			

Komatsu

WA250-6 - Wheel Loader	WA250PZ-6 - Wheel Loader	WA320-6 - Wheel Loader	WA320-6N - Wheel Loader	WA320PZ-6 - Wheel Loader

CUMMINS 6.7 ISB, CHRYSLER 2007-2010

EQUIPMENT MODELS

Cummins CPL's

1257	1264	1265	1283	1388	1489
1490	2774	2775	2777	2779	2780
2783	2885	2886	8230	8231	8232
8234	8235				

Dodge Truck, Ram 2500-3500

2007-2010

CUMMINS 6.7 ISB, CM2150/2250, 2010.5-2012

EQUIPMENT MODELS

Cummins CPL's

279	914	1388	2583	2598	2786
2787	2791	2792	2797	3070	3071
3072	3095	3096	3238	3239	3335
3336	3381	3389	3632	3650	3651
3693	3698	3934			

Dodge Truck, Ram 2500-5500

2010-2012

CUMMINS 6.7 ISB, CM2350, 2013-2018

EQUIPMENT MODELS

Cummins CPL's

3610	3617	3620	4517	4520	4579
4606	4607	4660	4824	4825	

Dodge Truck, Ram 2500-5500

2013-2018

CUMMINS 6.7 ISB, CM2350, 2013-2018, HIGH HP

EQUIPMENT MODELS

Cummins CPL's

3615 4577 4901

Dodge Truck, Ram 2500-5500

2013-2018

CUMMINS 6CT 8.3 PISTON (M): 3163

EQUIPMENT MODELS

Cummins CPL's

602
603
753
819
828
955
985
1248
1274
1275
1281
1603
9820

Case IH

1660 - Combine
1666 - Combine
1670 - Combine
1680 - Combine
2166 - Combine
2044 - Cotton Picker
7110 - Tractor
7120 - Tractor
7130 - Tractor
7140 - Tractor
7150 - Tractor
7210 - Tractor
7220 - Tractor
9110 - Tractor
9130 - Tractor
9210 - Tractor
9230 - Tractor
9240 - Tractor
9310 - Tractor

Case

721 - Loader
721B - Loader
821 - Loader
821B - Loader
W36 - Loader
1150E - Crawler
1155E - Crawler
1550 - Crawler
1187C - Excavator
9040 - Excavator
9040B - Excavator

Hyundai

R330LC-9S - Crawler Excavator

CUMMINS 6CTA 8.3 PISTON (M): 3164

EQUIPMENT MODELS

Cummins CPL's

604	754	755	830	831	893
959	984	1212	1222	1270	1273
1321	1377	1539	1547	1612	1633
1804	1826	1903	2054	2380	9803
9883					

Case IH

1670 - Combine	1680 - Combine	1688 - Combine	2188 - Combine	1844 - Cotton Picker	2044 - Cotton Picker
2055 - Cotton Picker	2155 - Cotton Picker	7140 - Tractor	7150 - Tractor	9230 - Tractor	9240 - Tractor
9330 - Tractor					

Case

6830TA - Power Unit

CUMMINS 6CTA 8.3 PISTON (M): 3537

EQUIPMENT MODELS

Cummins CPL's

722
1153
1614
1786
2333
2337
8414
8418
8765

Case

9030B - Excavator
9040B - Excavator
CX210 - Excavator
CX240 - Excavator
CX290 - Excavator
JS240 - Excavator
JS260 - Excavator
JS330 - Excavator
821B - Wheel Loader
821C - Wheel Loader
921B - Wheel Loader

JCB

JS240 - Excavator
JS260 - Excavator
JS330 - Excavator

Hyundai

HL757-7 - Wheel Loader
HL760 - Wheel Loader
HL760-3 - Wheel Loader
HL760-7 - Wheel Loader
HL770 - Wheel Loader
HL770-3 - Wheel Loader
HL770-7 - Wheel Loader
R200W-3 - Wheel Excavator
R210LC-3 - Wheel Excavator
R210LC-7 - Excavator
R250LC-3 - Excavator
R250LC-7 - Excavator
R290LC-3 - Excavator
R290LC-7 - Excavator
R320LC-3 - Excavator
R320LC-7 - Excavator

Samsung

SL150-2 - Wheel Loader
SL180-2 - Wheel Loader
SL250-2 - Wheel Loader

Kawasaki

80ZIV - Wheel Loader
85ZIV - Wheel Loader

Link-Belt

2800 Quantum - Excavator
3400 Quantum - Excavator
3900 Quantum - Excavator
210 LX - Excavator
240 LX - Excavator
290 LX - Excavator

Fiat-Hitachi / Fiat-Kobelco

FR160.2 - Wheel Loader
FR220.2 - Wheel Loader

CUMMINS 6CTA 8.3 PISTON (M): 9161

EQUIPMENT MODELS

Cummins CPL's

1845	1846	1943	1949	2007	2055
2056	2057	2060	2061	2062	2082
2118	2120	2185	2216	2218	2642
2833	2874	2894			

Shovel

EX300 LCH - Tata Hitachi

Skidder

Ranger F68C

Ranger F68G

Case

721C - Loader

SPX4260 - Sprayer

Case IH

2155 - Cotton Picker

2166 - Combine

2188 - Combine

2366 - Combine

2388 - Combine

Komatsu

WA320-3L - Wheel Loader

WA320-3MC - Wheel Loader

CUMMINS 6CTA 8.3 PISTON (M): 5878

EQUIPMENT MODELS

Cummins CPL's

1563	1569	1917	1920	1923	1972
2018	2101	2103	2106	2108	2193
2194	2196	2307	2532	2536	

Shovel

EX300 LCH - Tata Hitachi

Skidder

Ranger F68C

Ranger F68G

CUMMINS QSC 8.3 PISTON (M): 2106, 3446

EQUIPMENT MODELS

Cummins CPL's

2092	2230	2231	2232	2233	2234
2235	2236	2237	2241	2299	2688
2689	2690	2691	2692	2693	2694
2964	8088	8153	8203	8367	8578

Dynapac

F30CE - Asphalt Paver

New Holland

TG255 TJ275

Case IH

MX240 MX255 MX270 MX285

Cold Planer

W120F - Wirtgen W130F - Wirtgen

Skidder

630C - Tigercat 635C - Tigercat C640C - Tigercat

KUBOTA 02 SERIES D902

EQUIPMENT MODELS

Kubota

BX2350D - Tractor
BX2360 - Tractor
BX2370 - Tractor
BX2370-1 - Tractor
BX2380 - Tractor
BX2380-1 - Tractor
BX23S - Tractor
BX23S-1 - Tractor
BX24D - Tractor
BX25 - Tractor
BX25DLB - Tractor
BX25DLB-1 - Tractor
KX018-4 - Excavator
KX41-3 - Excavator
U17 - Excavator
U17-5 - Excavator
ZD1021 - Mower
ZD1021-3 - Mower
ZD323 - Mower
RTV-X900G - Utility Vehicle
RTV-X900R - Utility Vehicle
RTV-X900W - Utility Vehicle
RTV900G6 - Utility Vehicle
RTV900G9 - Utility Vehicle
RTV900R6 - Utility Vehicle
RTV900R9 - Utility Vehicle
RTV900T6 - Utility Vehicle
RTV900T9 - Utility Vehicle
RTV900W6 - Utility Vehicle
RTV900W6SE - Utility Vehicle
RTV900W8SE - Utility Vehicle
RTV900W9 - Utility Vehicle
RTV900W9SE - Utility Vehicle
RTV900XTG - Utility Vehicle
RTV900XTR - Utility Vehicle
RTV900XTW - Utility Vehicle

Bobcat

MT55 - Mini Track Loader

KUBOTA 05 SERIES D1105 INDIRECT INJECTION

EQUIPMENT MODELS

BLAW KNOX

M-450 - Asphalt Paver

BOBCAT

553 - Skid Steer

SINOBOOM

GTSZ30J - Crawler Telescopic Work Platform

DITCH WITCH

XT850 - Mini Skid Steer

HT25 - Trenchers

GENIE

GS-4069 RT - Wheeled Scissor Lift

GS-3369 RT - Wheeled Scissor Lift

GS-2669 RT - Wheeled Scissor Lift

HITACHI

EX12-2 - Mini Excavator

EX15-2 - Mini Excavator

EX22 - Mini Excavator

EX25-2 - Mini Excavator

HYUNDAI

HSL275T - Skid Steer

JLG

340AJ - Articulating Boom Lift

Kubota

B2400D - Tractor

B2400E - Tractor

B2400HSD - Tractor

B2400HSE - Tractor

B2410HSD - Tractor

B2410HSDB - Tractor

B2410HSE - Tractor

B7610HSD - Tractor

B2630HSD - Tractor

B2620HSD - Tractor

U25S - Compact Excavator

B26 - Loader backhoe

F2400 - Lawn Mowers

FZ2400 - Lawn Mowers

F2560 - Lawn Mowers

F2560E - Lawn Mowers

ZD28 - Lawn Mowers

ZD28F - Lawn Mowers

F2680E - Lawn Mowers

F2880F - Lawn Mowers

RTV1100CR (2007 - 2009) - Utility Vehicle

RTV1100CR9 (2009 -2011) - Utility Vehicle

RTV1100CRX - Utility Vehicle

RTV1100CW (2007 - 2009) - Utility Vehicle

RTV1100CW9 (2009 - 2011) - Utility Vehicle

RTV1100CWX - Utility Vehicle

RTV1140CPX - Utility Vehicle

RTV1140CPXR - Utility Vehicle

MANITOU

TMT 45 - Forklift

TMT45FL - Forklift

TAKEUCHI

TB 020 - Mini Excavator

VERMEER

S600TX - Mini Loader

S600T - Mini Loader

KUBOTA 05 SERIES V1505 INDIRECT INJECTION

EQUIPMENT MODELS

AUSA

C150H - Forklift
C150H X4 - Forklift
CH150X4 AWD - Forklift

HITACHI

EX30-2 - Mini Excavator

MILLER

Big Blue 400 Pro - Welder

BOBCAT

S100 - Skid Steer
425 - Mini Excavator

CASE

1825B - Skid Steer
460 - Trencher

KUBOTA

B2910HSD - Tractor
B7800HSD - Tractor
B3030HSD - Tractor
B3030HSDC - Tractor
B3000HSDC - Tractor
B3000HSDCC - Tractor
B3030HSDCC - Tractor
B3200HSD - Tractor
B3200HSDWC - Tractor
B3300SUHSD - Tractor
F3680 - Lawn Mowers

SWINGER

1600 - Forklift

VERMEER

S800TX - Mini Skid Steer

KUBOTA 03 SERIES V2203 INDIRECT INJECTION

EQUIPMENT MODELS

Bobcat

331E - Mini Excavator
334 - Mini Excavator
337 (1997) - Midi Excavator
341 (1997) - Midi Excavator
753 - Skid Steer Loader
753B - Skid Steer Loader
753H - Skid Steer Loader
753L - Skid Steer Loader
763 - Skid Steer Loader
773 - Skid Steer Loader
7753 - Skid Steer Loader
S150 - Skid Steer Loader
S175 - Skid Steer Loader
S185 - Skid Steer Loader

Case

1838 (01/94>12/96) - Skid Steer Loader

Denyo

DCA25ESK - Generator

Kubota

L4200 - Tractor
L4300 - Tractor
L4310 - Tractor
KX121 - Mini Excavator
KX161 - Midi Excavator
KJ-T210VX - Generator
KJ-S150VX - Generator
R510 - Loader
R510B - Loader

KUBOTA V3307 DIRECT INJECTION, W/EGR

EQUIPMENT MODELS

Bobcat

S630 - Skid Steer	S650 - Skid Steer	T630 - Compact Track Loader	T650 - Compact Track Loader

Kubota

KX080-3T - Mini Excavator	M6040DT-1 - Tractor	M6040DTC-1 - Tractor	M6040F-1 - Tractor	M6040FC-1 - Tractor	M6040HD-1 - Tractor
M6040HDC-1 - Tractor	M6040HDNB-1 - Tractor	M7040DT-1 - Tractor	M7040DTC-1 - Tractor	M7040F-1 - Tractor	M7040FC-1 - Tractor
M7040HD-1 - Tractor	M7040HDC-1 - Tractor	M7040HDNB-1 - Tractor	M7040HDNBC - Tractor	M7040SUH - Tractor	M7040SUHD - Tractor
SVL75 - Compact Track Loader	SVL75C - Compact Track Loader				

Takeuchi

TL230 Series 2 - Skid Steer

KUBOTA V3307-CR COMMON RAIL INJECTION

EQUIPMENT MODELS

Kubota

KX080-4 - Mini Excavator	KX080-4S - Mini Excavator	KX080-4S2 - Mini Excavator	KX080-5 - Mini Excavator	M4-071HDC12 - Tractor	M4D-061HDC12 - Tractor
M4D-071HDC12 - Tractor	M6060HD - Tractor	M6060HDC - Tractor	M6060HFC - Tractor	M7060HD - Tractor	M7060HD12 - Tractor
M7060HDC - Tractor	M7060HDC12 - Tractor	M7060HFC - Tractor	SSV75 - Skid Steer	SSV75C - Skid Steer	SSV75P - Skid Steer
SSV75PC - Skid Steer	SVL75-2 - Compact Track Loader	SVL75-2c - Compact Track Loader			

Takeuchi

TL8 - Compact Track Loader	TL8R-2 - Compact Track Loader	TL10 - Compact Track Loader	TL10V2 - Compact Track Loader

KUBOTA V3 SERIES V3800-CR-T IT4

EQUIPMENT MODELS

Kubota

M100GXDTC - Tractor
M100XDTC - Tractor
M108SDSL - Tractor
M108SDSL2 - Tractor
M108SDSLS - Tractor
M108SDSL2S - Tractor
M108SDSL2-SN - Tractor
M108SH - Tractor
M108SDSF - Tractor
M108SHC - Tractor
M108SHD - Tractor
M108SDS - Tractor
M108SDS2 - Tractor
M108SHDC - Tractor
M108SDSF - Tractor
M108XDTC - Tractor
M110GXDTC - Tractor
M110XDTC - Tractor
M8560HD - Tractor
M8560HD12 - Tractor
M8560HDC - Tractor
M8560HDC12 - Tractor
M8560HF - Tractor
M8560HFC - Tractor
M9960HD - Tractor
M9960HD12 - Tractor
M9960HDC - Tractor
M9960HDC12 - Tractor
M9960HDC24 - Tractor
M9960HDL - Tractor
M9960HDSL - Tractor
M9960HDLSN - Tractor
M9960HF - Tractor
M9960HFC - Tractor
SVL90-2 - Compact Track Loader
SVL90-2C - Compact Track Loader
TL10 - SKID STEER

Bobcat

S850 - Skid Steer
T770 - Compact Track Loader
T870 - Compact Track Loader

MITSUBISHI S4S INDIRECT INJECTION, NATURALLY ASPIRATED

EQUIPMENT MODELS

Gensets

BCM 33-50 E2
BCM 24-50SP E2
BCM 31-60
BCM 31-60SP
BCM 31-60 IT4
BCM 31-60SP IT4

LS

U5030 - Tractor
U5030C - Tractor

OEM

DH 30 - Generator
DS 30 - Generator
DHR 30 - Generator
G40WMI-2A-T4i - Generator
HB 25-45 - Generator
MI35TSX - Generator
TJ34MS - Generator
W-SQ 20 MOBILE - Generator
W-SQ 20 MARINE - Generator
W-SQ 22 MOBILE - Generator
W-SQ 22 MARINE - Generator
W-SQ 27 MOBILE - Generator
W-SQ 27 MARINE - Generator
W-SQ 32 MOBILE - Generator
W-SQ 32 MARINE - Generator

Clark Equipment - Forklift Trucks

CDP20
CDP25
CDP30
CDP32
CGP20 (P365)
CGP20-30
CGP25 (P365)
CGP25
CGP30 (P365)
CGP30

Wheel-Loaders

VF363F

Ingersoll Rand

S30 - Compressors
G30 - Compressors
G33 - Compressors
G34 - Compressors

Marine

G-35M-15 - Generator
G-35T-15 - Generator
JF30-1500 - Generator
JF40-1500 - Generator
JF44-1500 - Generator
MINI-74 - Generator

SDMO

R33C2 - Generator
T25C2M - Generator
T25C3M - Generator
T30U - Generator
T30UM - Generator
T33C3 - Generator
T33K - Generator
TM30 - Generator
TM30UCM - Generator

Caterpillar

DP20N - Forklifts
DP25N - Forklifts
DP30N - Forklifts
DP35N - Forklifts

INTERNATIONAL HARVESTER / NAVISTAR DT466 (ESN 440,036 – 567,491) / PERKINS 1300 SERIES (WB & WC BUILDS)

EQUIPMENT MODELS

Agricultural

1660 Early 1680 Early 5488 Late 7288 Late 7488

WB - T6.466 / Industrial

WB5003	WB5006	WB5007	WB5018	WB5019	WB5023
WB5035	WB5036	WB5037	WB7002	WB7009	WB7010
WB7012	WB7013	WB7020	WB7023		

WC - CC6.466

WC5001 - F.G WILSON	WC5002 - F.G WILSON	WC5009 - INDUSTRIAL	WC5010 - INDUSTRIAL	WC5012 - INDUSTRIAL	WC5013 - INDUSTRIAL
WC5014 - INDUSTRIAL	WC5016 - INDUSTRIAL	WC5022 - INDUSTRIAL	WC5024 - INDUSTRIAL	WC5025 - INDUSTRIAL	WC5026 - INDUSTRIAL
WC5027 - INDUSTRIAL	WC5030 - INDUSTRIAL	WC5033 - INDUSTRIAL	WC5038 - INDUSTRIAL	WC5040 - INDUSTRIAL	WC5041 - INDUSTRIAL
WC5042 - INDUSTRIAL	WC5043 - INDUSTRIAL	WC7014 - INDUSTRIAL	WC7015 - INDUSTRIAL	WC7016 - INDUSTRIAL	WC7017 - INDUSTRIAL
WC7018 - INDUSTRIAL	WC7019 - INDUSTRIAL	WC7026 - INDUSTRIAL	WC7029 - INDUSTRIAL	WC70355 - INDUSTRIAL	WC5017 - 1300 SERIES
WC5020 - 1300 SERIES	WC5028 - GENSET	WC5032 - AUTOMOTIVE	WC5039 - AUTOMOTIVE	WC7003 - AUTOMOTIVE	WC7004 - AUTOMOTIVE
WC7005 - AUTOMOTIVE					

FPT IVECO NEF – N45 PISTON #87317238

EQUIPMENT MODELS

CASE IH - IRRIGATION POWER UNIT

PX70

CASE IH - COMPACT TRACK LOADER

445CT 450CT

CASE IH - TRACTOR

JX1070U JX1080U JX1085C

NEW HOLLAND - TRACTOR

5610S 6610S 7610S TN85A TN85DA

CASE IH - SKID STEER

430 445

CASE IH - BACKHOE LOADER

580M
SERIES 2

CASE IH - BACKHOE LOADER

580M
SERIES 2

ENGINE TYPE

F4GE0404AD650 F4GE0404AD654 F4GE0404AD656 F4GE0404AD657 F4GE0405AF650 F4GE0405AB601
F4GE0405AF650 F4GE0405BF650 F4GE0407AB650 F4GE0407AB650 F4GE0404BD650

FPT IVECO NEF – N45 PISTON #8094740

EQUIPMENT MODELS

CASE IH - SKID LOADER

430 435 440 SERIES 3 445 450 465

CASE IH - FORKLIFT

586G SERIES 3 586G SERIES 3

CASE IH - WHEEL LOADER

521D

CASE IH - COMPACT TRACK LOADER

450CT

CASE IH - BACKHOE LOADER

570MXT 580SM+ SERIES 2 580SM SERIES 2 580N 580M SERIES 3 580M SERIES 2 590SM SERIES 2

CASE IH - TRACTOR

FARMALL 105U FARMALL 110A FARMALL 120A FARMALL 125A FARMALL 140A FARMALL 85U
FARMALL 90 FARMALL 95 FARMALL 95C FARMALL 95N FARMALL 95U JX1090C
JX1095C JX1100U MAXXUM 100 MAXXUM 110 MXU110 TX742
TX842 TX945 TX1055

CASE IH - WINDROWER

WDX1002S WDX1202 WDX1202S

CASE IH - TELEHANDLER

TX742 TX842 TX945

NEW HOLLAND - BACKHOE LOADER

U80B B90B B95 B95LR B95TC B110 B115

NEW HOLLAND - TELEHANDLER

M427 M428 M459

NEW HOLLAND - TRACTOR

T4.95F T4.95V T4040 T4050 T4050F T4050N
T4050V T5040 T5050 T5060 T5070 T6010
T6020 TD5050 TN95A TN95DA TS100A TS100A
TS6.110 TS6.120 TS6.125 TS6.140 TS6000 TS6020
TS6030

NEW HOLLAND - CRAWLER TRACTOR

TK4050 TK4050M TK4060

KOBELCO - EXCAVATOR

SK210-8

ENGINE TYPE

F4CE0454AD604 F4CE0454AD606 F4CE0454AD607 F4CE0454CD607 F4CE0454CD612 F4CE9454CJ601
F4CE9484CJ600 F4CE9484CJ601 F4CE9484GJ600 F4CE9484GJ604 F4CE9484GJ607 F4CE9484JJ602
F4CE9484JJ604 F4CE9484LJ600 F4CE9484LJ602 F4CE9484LJ603 F4CE9484LJ604 F4CE9484LJ605
F4CE9484LJ606 F4CE9484MJ602 F4CE9484MJ603 F4CE9484MJ606 F4CE9484MJ607 F4CE9484MJ608
F4CE9487AJ600 F4CE9487AJ601 F4CE9487NJ603 F4CE9487NJ605 F4CE9487NJ606 F4GE0454AD601
F4GE0454AD603 F4GE0454AD606 F4GE0454AD613 F4GE0454AD615 F4GE0454AD655 F4GE0454AD660
F4GE0454AD661 F4GE0454AD662 F4GE0454CD660 F4GE0455AB601 F4GE0455AF600 F4GE0455AF650
F4GE0455BF600 F4GE0455CF600 F4GE0455CF650 F4GE0455ND600 F4GE0457AD600 F4GE0484CD602
F4GE0484CD604 F4GE0484CD650 F4GE0484CD651 F4GE0484CD660 F4GE0484GD607 F4GE0484GD675
F4GE0484GD604 F4GE0485AB601 F4GE0485AF600 F4GE0485AF650 F4GE0485CF600 F4GE0485CF650
F4GE9454CJ604 F4GE9454CJ605 F4GE9454CJ606 F4GE9454CJ609 F4GE9454CJ610 F4GE9454HJ600
F4GE9454HJ603 F4GE9454HJ605 F4GE9454HJ606 F4GE9454HJ607 F4GE9454JJ600 F4GE9454JJ601
F4GE9454JJ603 F4GE9454JJ604 F4GE9454JJ606 F4GE9454KJ600 F4GE9454KJ608 F4GE9455AJ600
F4GE9455BJ600 F4GE9455EJ601 F4GE9455EJ602 F4GE9484AJ600 F4GE9484AJ601 F4GE9484AJ601
F4GE9484AJ611 F4GE9484AJ613 F4GE9484CJ605 F4GE9484CJ606 F4GE9484CJ610 F4GE9484CJ611
F4GE9484DJ601 F4GE9484DJ602 F4GE9484DJ609 F4GE9484DJ612 F4GE9484DJ613 F4GE9484DJ614
F4GE9484DJ621 F4GE9484DJ622 F4GE9484DJ623 F4GE9484DJ625 F4GE9484DJ627 F4GE9484DJ628
F4GE9484FJ603 F4GE9484FJ604 F4GE9484FJ605 F4GE9484FJ608 F4GE9484FJ611 F4GE9484FJ612
F4GE9484JJ600 F4GE9484JJ602 F4GE9484KJ601 F4GE9484RJ601 F4GE9485AJ600 F4GE0454ED666
F4GE0454ED651

FPT IVECO NEF – N45 PISTON #87317256

EQUIPMENT MODELS

NEW HOLLAND - LOADER BACKHOE

B95B B95BTC B95BLR B110 B110B B115 B115B

ENGINE TYPE

F4DE9484AJ100 F4DE9484AJ103 F4DE9484AJ105 F4DE9484AJ107 F4DE9484DJ102 F4DE9484EJ100
F4DE9487BJ100 F4DE9487BJ102 F4HE0454DJ104 F4HE0454DJ105 F4HE0484GJ100 F4HE0484GJ102
F4HE0484GJ108 F4HE0484GJ109 F4HE0484GJ111 F4HE0484GJ113 F4HE9484AJ101 F4HE9484AJ104
F4HE9484AJ106 F4HE9484AJ108 F4HE9484CJ100 F4HE9484CJ102 F4HE9484CJ103 F4HE9484CJ106
F4HE9484CJ107 F4HE9484CJ108 F4HE9484CJ109 F4HE9484CJ111 F4HE9484CJ112 F4HE9484CJ115
F4HE9484CJ116 F4HE9484MJ100

FPT IVECO NEF – N45 PISTON #8097879

EQUIPMENT MODELS

ENGINE TYPE

F4DFE413AA002	F4DFE413AA003	F4DFE413AA006	F4DFE413AA011	F4DFE413AA012	F4DFE413AA013
F4DFE413BA002	F4DFE413BA004	F4DFE413BA005	F4DFE413BA006	F4DFE413CA003	F4DFE413CA004
F4DFE413CA005	F4DFE413CA010	F4DFE413CA011	F4DFE413CA012	F4DFE413DA002	F4DFE413DA006
F4DFE413EA002	F4DFE413EA006	F4HE0485BJ101	F4HE0485BJ102	F4HE0485BJ103	F4HE0485BJ105
F4HE0485CJ101	F4HE0485CJ102	F4HE0485CJ103	F4HE0485CJ104	F4HFA413AE002	F4HFE413AA003
F4HFE413AA004	F4HFE413AA005	F4HFE413CA002	F4HFE413CA004	F4HFE413CA006	F4HFE413CA010
F4HFE413CA013	F4HFE413DA003	F4HFE413DA005	F4HFE413DA007	F4HFE413DA008	F4HFE413DA010
F4HFE413EA004	F4HFE413EA006	F4HFE413EA008	F4HFE413EA010	F4HFE413JA002	F4HFE413JA007
F4HFE413JA008	F4HFE413JA009	F4HFE413LA002	F4HFE413LA003	F4HFE413LA004	F4HFE413LA005
F4HFE413LA007	F4HFE413LA010	F4HFE413MA003	F4HFE413MA004	F4HFE413MA005	F4HFE413PA001
F4HFE413PA004	F4HFE413PA005	F4HFE413PA007	F4HFE413PA008	F4HFE413PA010	F4HFE415AA001
F4HFE415BA001	F4HFE415CA001	F4HFE415DA001	N45ENTY20.00	N45ENTY20.50	N45ENTY21.00
N45ENTY21.50	N45ENTY21.NA125	N45ENTY22.00	N45ENTY22.50	N45ENTY23.00	N45ENTY23.50
N45TE1P.01A82	N45TE1P.02A82	N45TE2P.01A100	N45TE2P.02A100	NEF45TE1F.S550	NEF45TE1F.S551
NEF45TE1P.9S551	NEF45TE1P.A82	NEF45TE1P.S551	NEF45TE1P.S552	NEF45TE2F.01A100	NEF45TE2F.S550
NEF45TE2F.S551	NEF45TE2P.125A00	NEF45TE2P.9S550	NEF45TE2P.A100	NEF45TE2P.S550	NEF45TE2P.S551
NEF45TE3Y.S500	NEF45TE4Y.S500				

FPT IVECO NEF – N67 PISTON #8094740

EQUIPMENT MODELS

CASE IH - WHEEL LOADER

621D

CASE IH - TRACTOR

MAXXUM 115 | MAXXUM 125 | MXU115 | MXU130

NEW HOLLAND - TRACTOR

T6030 | T6050 | T6070 | TS110A | TS115A | TS130A

NEW HOLLAND - EXCAVATOR

E215B

ENGINE TYPE

F4CE9684HJ604	F4CE9684JJ601	F4CE9684KJ601	F4GE0655BB600	F4GE0684ED650	F4GE0684GD602
F4GE0684GD603	F4GE0685AB601	F4GE0685BB601	F4GE0685BB602	F4GE0685BF650	F4GE0685DF650
F4GE9684AJ602	F4GE9684AJ606	F4GE9684AJ607	F4GE9684BJ600	F4GE9684BJ603	F4GE9684BJ604
F4GE9684BJ605	F4GE9684BJ606	F4GE9684BJ608	F4GE9684CJ601	F4GE9684CJ602	F4GE9684DJ602
F4GE9684DJ603	F4GE9684DJ604	F4GE9684EJ602	F4GE9684EJ609	F4GE9684FJ601	F4GE9684RJ600
F4GE9684RJ602	F4GE9684RJ603	F4GE9684RJ605	F4GE9684RJ606	F4GE9684RJ610	F4GE9684RJ612
F4GE9685AJ600	F4GE9685CJ600	F4GE9685CJ601	F4CE0684CD600		

FPT IVECO NEF – N67 PISTON #8094846

EQUIPMENT MODELS

NEW HOLLAND

T7030 T7040 T7050 T7060 T7070

CASE IH - TRACTOR

MAGNUM 180 MAGNUM 190 MAGNUM 200 MAGNUM 210 MAGNUM 220 MAGNUM 225 MAGNUM 240

ENGINE TYPE

F4DE96847J101 F4DE96847J102 F4DE96847J104 F4DE96848J101 F4DE96848J102 F4DE96849J101
F4DE96849J102 F4DE9684BJ100 F4DE9684BJ101 F4DE9684BJ102 F4DE9684BJ104 F4DE9684BJ108
F4DE9684BJ109 F4DE9684BJ116 F4DE9684BJ117 F4DE9684BJ118 F4DE9684BJ119 F4DE9684LJ103
F4DE9684LJ112 F4DE9684LJ113 F4DE9684MJ100 F4DE9684MJ101 F4DE9684NJ104 F4DE9684SJ100
F4DE9684SJ103 F4HE96841J102 F4HE9684DJ109 F4HE9684EJ107 F4HE9684JJ106 F4HE9684PJ100
F4HE9684PJ101 F4HE9684PJ104 F4HE9687AJ100 F4HE9687CJ101 F4HE9687DJ100 F4HE9687GJ104
F4HE9687GJ106 F4HE9687GJ108 F4HE9687NJ104 F4HE9687PJ100 F4HE9687SJ104 F4HE9687TJ104
F4HFP613DH003 F4HFP613DH005 F4HE9687GJ100 F4HE9687GJ101 F4HE9687GJ104 F4HE9687SJ100

FPT IVECO NEF – N67 PISTON #87317256

EQUIPMENT MODELS

CASE IH - TRACTOR

MAXXUM
140

NEW HOLLAND - TRACTOR

T6030 T6050 T6070 T6080 T6090

NEW HOLLAND - WHEEL LOADER

W130B W170B

ENGINE TYPE

F4DE9684FJ100	F4DE9684JJ101	F4DE9684JJ102	F4DE9684JJ107	F4DE9684JJ108	F4DE9684YJ102
F4DE9684YJ105	F4DE96873J102	F4DE9687JJ100	F4DE9687JJ101	F4DE9687RJ101	F4DE9687UJ100
F4DE9687VJ100	F4DE9687VJ101	F4DE9687VJ109	F4DE9687XJ102	F4DE9687XJ103	F4HE0484GJ115
F4HE0687AJ104	F4HE0687AJ105	F4HE9684FJ100	F4HE9684FJ109	F4HE9687BJ103	F4HE9687BJ105
F4HE9687BJ107	F4HE9687HJ103	F4HE9687LJ100	F4HE9687LJ101	F4HE9687MJ104	F4HE9687MJ106
F4HE9687MJ107	F4HE9687MJ109	F4HE9687ZJ100	F4HE9687ZJ101	F4HFP613EH001	

FPT IVECO NEF – N67 PISTON #8097879

EQUIPMENT MODELS

CASE IH - TRACTOR

PUMA 170 PUMA 185 PUMA 200 PUMA 215 PUMA 230

CASE IH - WHEEL LOADER

621F 821F 921F 921F XR

KOBELCO - EXCAVATOR

SK260-9 SK295-9

ENGINE TYPE

F4DFE613CA007
F4DFE613CA009
F4DFE613CA010
F4DFE613CA011
F4DFE613DA004
F4DFE613DA005
F4DFE613DA006
F4DFE613DA007
F4DFE613EA003
F4DFE613FA002
F4DFE613FA003
F4DFE613GA004
F4DFE613GA005
F4DFE613HA003
F4DFE613JA004
F4DFE613JA005
F4DFE613JA007
F4DFE613JA008
F4DFE613KA003
F4DFE613KA004
F4DFE613LA003
F4DFE613LA004
F4HE0685AJ101
F4HE0685AJ102
F4HE0685AJ104
F4HE0685FJ100
F4HE0685FJ101
F4HE0685FJ103
F4HE0685FJ106
F4HE0685GJ100
F4HE0685GJ101
F4HE0685GJ103
F4HE0685GJ104
F4HFA613BE001
F4HFA613CE001
F4HFA613DE001
F4HFA613DE002
F4HFA613FE002
F4HFA613LE003
F4HFA613LE004
F4HFA613ME003
F4HFA613ME004
F4HFA613NE002
F4HFA613NE006
F4HFA613NE007
F4HFE6131A003
F4HFE6131A004
F4HFE6131A007
F4HFE6132A003
F4HFE6132A004
F4HFE6132A008
F4HFE6132A009
F4HFE6132A013
F4HFE6132A014
F4HFE6133A002
F4HFE6133A004
F4HFE613CA004
F4HFE613CA007
F4HFE613FA001
F4HFE613FA002
F4HFE613FA004
F4HFE613FA006
F4HFE613FA007
F4HFE613FA009
F4HFE613FA010
F4HFE613FA011
F4HFE613FA012
F4HFE613GA003
F4HFE613GA005
F4HFE613HA004
F4HFE613HA005
F4HFE613HA006
F4HFE613JA003
F4HFE613JA005
F4HFE613JA006
F4HFE613JA009
F4HFE613JA010
F4HFE613JA013
F4HFE613JA013
F4HFE613JA014
F4HFE613JA016
F4HFE613JA017
F4HFE613JA019
F4HFE613JA020
F4HFE613KA005
F4HFE613LA003
F4HFE613LA006
F4HFE613SA003
F4HFE613XA004
F4HFE613YA003
F4HFE613YA004
F4HFE613YA005
F4HFE613YA007
F4HFE613YA008
F4HFE613ZA005
F4HFE613ZA006
F4HFE613RA003
F4HFE614EA001
GENEF150EF.R980
GENEF170EF.R980
N67ENTY20.00
N67ENTY20.00
N67ENTY20.00A013
N67ENTY20.00L009
N67ENTY20.99
N67ENTY20.99A013
N67ENTY21.00
N67ENTY21.99
N67ENTY22.00
N67ENTY22.99
N67ENTY23.00
N67ENTY23.99
N67TE1PV.01A150
N67TE1PV.02A150
N67TE2PV.01A170
N67TE3PV.01A200
N67TE3PV.02A200
NEF67TE1F.99S550
NEF67TE1F.S550
NEF67TE1PV.165A00
NEF67TE1PV.S550
NEF67TE1PV.S551
NEF67TE2F.99S550
NEF67TE2F.S550
NEF67TE2PV.S550
NEF67TE2PV.S551
NEF67TE3F.99S550
NEF67TE3F.S550
NEF67TE3PV.S550
NEF67TE3PV.S551

FPT IVECO – CURSOR 9 – PISTON #500055469

EQUIPMENT MODELS

CASE IH - TRACTOR

MAGNUM 235	MAGNUM 250	MAGNUM 260	MAGNUM 280	MAGNUM 290	MAGNUM 310
MAGNUM 315	MAGNUM 340	MAGNUM 370	MAGNUM 370 QUADTRAC	MAGNUM 380	STEIGER 350
				STEIGER 370	

CASE IH - SPRAYERS

PATRIOT 3250	PATRIOT 4350	PATRIOT 4450

NEW HOLLAND - WHEEL LOADERS

W270C	W300C

IVECO - TRUCKS

STRALIS	S-WAY	TRAKKER	T-WAY	ARWAY	MAGELYS HD
EVADYS	CROSSWAY 10.8 M	CROSSWAY 12 M	CROSSWAY 13 M	CROSSWAY LE 10.8 M	CROSSWAY LE 12 M
CROSSWAY LE 13 M	CROSSWAY LE 14.5 M				

Engine Model

FC2FE613B006	FC2FE613EB006	F2CGE814MV008	F2CGE814MV002	F2CGE814MV001	F2CGE814LV002
F2CGE814KV004	F2CGE814HV004	F2CGE814FV006	F2CGE814FV005	F2CGE814FV002	F2CGE813ZK001
F2CGE813KV001	F2CGE813EV022	F2CGE813EV017	F2CGE813EV010	F2CGE813EV007	F2CGE813EV006
F2CGE813EV001	F2CGE813DV011	F2CGE813DV010	F2CGE813DV009	F2CGE813DV008	F2CGE813DV007
F2CGE813DV006	F2CGE813DV005	F2CGE813BV006	F2CGE813AV006	F2CGE813AV004	F2CGE813AV001
F2CGE615BK001	F2CGE615BV001	F2CGE615BK001	F2CGE615AV001	F2CGE614MV008	F2CGE614MV004
F2CGE614MV002	F2CGE614MV001	F2CGE614LV008	F2CGE614LV004	F2CGE614LV001	F2CGE614LV002
F2CGE614KV004	F2CGE614KV003	F2CGE614JV004	F2CGE614JV003	F2CGE614HV004	F2CGE614HV003
F2CGE614GV004	F2CGE614GV003	F2CGE614FV006	F2CGE614FV004	F2CGE614FV003	F2CGE614FV001
F2CGE614DK003	F2CGE614DK001	F2CGE614CK002	F2CGE614BK002	F2CGE614AK006	F2CGE614AK003
F2CGE613YK001	F2CGE613XK001	F2CGE613KV001	F2CGE613EV014	F2CGE613EV022	F2CGE613EV021
F2CGE613EV020	F2CGE613EV018	F2CGE613EV017	F2CGE613EV016	F2CGE613EV015	F2CGE613EV014
F2CGE613EV011	F2CGE613EV010	F2CGE613EV009	F2CGE613EV008	F2CGE613EV007	F2CGE613EV002
F2CGE613EV001	F2CGE613DV012	F2CGE613DV011	F2CGE613DV010	F2CGE613DV009	F2CGE613DV008
F2CGE613DV007	F2CGE613DV006	F2CGE613DV005	F2CGE613BV006	F2CGE613BV005	F2CGE613BV004
F2CGE613BV003	F2CGE613AV006	F2CGE613AV005	F2CGE613AV004	F2CGE613AV001	F2CFP614DH003
F2CFP614DH003	F2CFP614CH008	F2CFP614BH066	F2CFP614BH061	F2CFP614BH003	F2CFP614AH064
F2CFP614AH014	F2CFP614AH007	F2CFP614AH004	F2CFP613AH015	F2CFP613AH010	F2CFP613AH004
F2CFE813GB073	F2CFE813GB072	F2CFE813GB002	F2CFE813AA017	F2CFE615DB001	F2CFE615CB001
F2CFE615BB001	F2CFE615AB001	F2CFE614VB081	F2CFE614UB080	F2CFE614TB077	F2CFE614TB070
F2CFE614TB069	F2CFE614TB069	F2CFE614TB068	F2CFE614SB085	F2CFE614SB060	F2CFE614SB059
F2CFE614HB072	F2CFE614HB005	F2CFE614HB004	F2CFE614HB072	F2CFE614HB056	F2CFE614HB005
F2CFE614HB004	F2CFE614GB042	F2CFE614GB041	F2CFE614GB037	F2CFE614GB036	F2CFE614GB003
F2CFE614GB002	F2CFE614FB074	F2CFE614FB055	F2CFE614FB005	F2CFE614FB004	F2CFE614EB000
F2CFE614EB006	F2CFE614EA004	F2CFE614DB042	F2CFE614DB041	F2CFE614DB037	F2CFE614DB036
F2CFE614DB003	F2CFE614DB002	F2CFE614DA005	F2CFE614DA004	F2CFE614CB084	F2CFE614CB042
F2CFE614CB041	F2CFE614CB037	F2CFE614CB036	F2CFE614CB003	F2CFE614CB002	F2CFE614CA024
F2CFE614CA003	F2CFE614CA002	F2CFE614CA001	F2CFE614BA001	F2CFE614BB006	F2CFE614BA024
F2CFE614BA003	F2CFE614BA002	F2CFE614BA001	F2CFE614AH066	F2CFE614AB079	F2CFE614AB061
F2CFE614AB054	F2CFE614AB053	F2CFE614AB042	F2CFE614AB041	F2CFE614AB038	F2CFE614AB037
F2CFE614AB036	F2CFE614AB003	F2CFE614AB002	F2CFE614AB001	F2CFE614AA014	F2CFE614AA013
F2CFE614AA012	F2CFE614AA011	F2CFE614AA010	F2CFE614A8079	F2CFE613TA019	F2CFE613SA020
F2CFE613RA022	F2CFE613RA021	F2CFE613PA011	F2CFE613PA010	F2CFE613NA011	F2CFE613NA010
F2CFE613LB086	F2CFE613LA026	F2CFE613LA024	F2CFE613LA022	F2CFE613LA004	F2CFE613LA002
F2CFE613KB087	F2CFE613JA011	F2CFE613JB128	F2CFE613JB126	F2CFE613JB095	F2CFE613JB094
F2CFE613JB057	F2CFE613JB047	F2CFE613JA010	F2CFE613HA024	F2CFE613HA003	F2CFE613HA002
F2CFE613GB074	F2CFE613GB073	F2CFE613GB072	F2CFE613GB071	F2CFE613GB001	F2CFE613GB100
F2CFE613GB074	F2CFE613GB071	F2CFE613GB065	F2CFE613GB064	F2CFE613GB002	F2CFE613GA030
F2CFE613FA011	F2CFE613FB079	F2CFE613FB004	F2CFE613FB003	F2CFE613FA011	F2CFE613FA010
F2CFE613EB078	F2CFE613EB061	F2CFE613EB012	F2CFE613EB004	F2CFE613EA018	F2CFE613EB102
F2CFE613EB078	F2CFE613EB075	F2CFE613EB068	F2CFE613EB061	F2CFE613EB059	F2CFE613EB013
F2CFE613EB006	F2CFE613EB004	F2CFE613EB003	F2CFE613EAA03	F2CFE613EA024	F2CFE613EA018
F2CFE613EA002	F2CFE613DB093	F2CFE613DA030	F2CFE613DB127	F2CFE613DB096	F2CFE613DB093
F2CFE613DB044	F2CFE613DB008	F2CFE613DA030	F2CFE613CA011	F2CFE613CA011	F2CFE613CA010
F2CFE613CB081	F2CFE613CB069	F2CFE613CB060	F2CFE613CB043	F2CFE613CB006	F2CFE613CB004
F2CFE613CB003	F2CFE613CA010	F2CFE613BB101	F2CFE613BB068	F2CFE613BB059	F2CFE613BB003
F2CFE613BA030	F2CFE613AB070	F2CFE613AB013	F2CFE613AB080	F2CFE613AB077	F2CFE613AB076
F2CFE613AB070	F2CFE613AB062	F2CFE613AB061	F2CFE613AB046	F2CFE613AB040	F2CFE613AB013
F2CFE613AB012	F2CFE613AB007	F2CFE613AB005	F2CFE613AB004	F2CFE613AB003	F2CFE613AA067
F2CFE613AA035	F2CFE613AA025	F2CFE613AA023	F2CFE613AA017	F2CFE613AA016	F2CFE613AA015
F2CFE612BC113	F2CFE612BC043	F2CFE612AC043	F2CFE014DA004	F2CFA814EE030	F2CFA814DE025
F2CFA814DE002	F2CFA813TE022	F2CFA813SE010	F2CFA813NE010	F2CFA813KE054	F2CFA813GE031
F2CFA813GE027	F2CFA813EE053	F2CFA614EE031	F2CFA614EE030	F2CFA614DE040	F2CFA614DE026
F2CFA614DE025	F2CFA614DE024	F2CFA614DE023	F2CFA614DE022	F2CFA614DE002	F2CFA614DE001
F2CFA614CE020	F2CFA614CE019	F2CFA614BE020	F2CFA614BE019	F2CFA614AE039	F2CFA614AE038
F2CFA614AE033	F2CFA614AE032	F2CFA614AE026	F2CFA614AE025	F2CFA614AE024	F2CFA614AE023
F2CFA614AE022	F2CFA614AE021	F2CFA614AE014	F2CFA614AE012	F2CFA614AE011	F2CFA614AE010
F2CFA614AE002	F2CFA614AE001	F2CFA613TE022	F2CFA613TE003	F2CFA613SE032	F2CFA613SE010
F2CFA613RE021	F2CFA613PE011	F2CFA613PE010	F2CFA613NE011	F2CFA613NE010	F2CFA613KE054
F2CFA613KE040	F2CFA613KE039	F2CFA613JE011	F2CFA613JE010	F2CFA613HE047	F2CFA613HE029
F2CFA613HE020	F2CFA613GE052	F2CFA613GE031	F2CFA613GE030	F2CFA613GE028	F2CFA613GE027
F2CFA613GE024	F2CFA613GE003	F2CFA613GE002	F2CFA613FE011	F2CFA613FE010	F2CFA613EE053
F2CFA613EE041	F2CFA613EE038	F2CFA613DE002	F2CFA613DE051	F2CFA613DE031	F2CFA613DE031
F2CFA613DE030	F2CFA613DE028	F2CFA613DE027	F2CFA613DE003	F2CFA613DE002	F2CFA613CE011
F2CFA613CE010	F2CFA613BG001	F2CFA613BE050	F2CFA613BE044	F2CFA613BE031	F2CFA613BE030
F2CFA613BE028	F2CFA613BE027	F2CFA613BE023	F2CFA613BE003	F2CFA613BE002	F2CFA613AG001

F2CFA613AE022 F2CFA613AE016 CURSOR87TE4F.A550 CURSOR87TE3F.A550 C87TEVP09.00 C87TEVP08.00
C87TEVP07.00 C87TEVP07.00 C87TEVP06.00 C87TEVP05.00 C87TEVP04.00 C87TEVP03.00
C87TEVP02.00 C87TEVP01.00 C87TEPVG01.A005 C87TEPVG01.A004 C87TEPVG01.A003 C87TEPVG01.A002
C87TEPVG01.A001 C87TE4F.F550 C87TE3F.F550 C87TE1PV.F550 C87TE1PV.02A294 C87TE1PV.01A294
C87ETPV03.A293 C87ETPV03.A263 C87ETGP03.293A00 C87ENTZW88.00 C87ENTZW82.02A282 C87ENTZW81.00
C87ENTZW69.02A330 C87ENTZW69.00 C87ENTZW68.00 C87ENTZW62.02A282 C87ENTZW62.00 C87ENTZW61.00
C87ENTZW21.00 C87ENTZW20.00 C87ENTY22.00A001 C87ENTY22.00 C87ENTY21.00 C87ENTY20.00
C87ENTVP20.00 C87ENTLW21.00 C87ENTLW21.00 C87ENTLW20.00 C87ENTHW21.NA245 C87ENTHW21.99
C87ENTHW21.00 C87ENTHW20.NA305 C87ENTHW20.99 C87ENTHW20.00

CATALOG INDEX:

John Deere®

John Deere 3.152 O'rings on liner....2
John Deere 3.164 Small Pin, O'rings on Liner....4
John Deere 3.164 Large Pin, O'rings on Block....6
John Deere 3029D Liter Designated....8
John Deere 3029T Liter Designated....10
John Deere 4.202 O'rings on block....12
John Deere 4.219 Small Pin, O'rings on Block....14
John Deere 4.239D....16
John Deere 4.239T....18
John Deere 4.276D Small Pin....20
John Deere 4045D Liter Designated....22
John Deere 4045T Liter Designated....24
John Deere 6.303 O'rings on Block....26
John Deere 6.329 Small Pin, O'rings on Block....28
John Deere 6.359D....30
John Deere 6.359T....32
John Deere 6.414D Large Pin....34
John Deere 6.414T....36
John Deere 4.270 To ESN 280,000 See Block....38
John Deere 4.270 To ESN 280,000 Early Power Booster....40
John Deere 6.404D To ESN 214,999 See Block....42
John Deere 6.404D To ESN 214,999 Early Power Boost....44
John Deere 6.404D From ESN 335,846....46
John Deere 6.404T/A From ESN 335,846....48
John Deere 6.466A/T Con Rod (m): R57303, R67320....50
John Deere 6.466A ESN 233,593-317,858....52
John Deere 6076 T/A/H High Ring Piston....54
John Deere 6.531T See Con. Rod (m)....56
John Deere 6.619A/T Early....58
John Deere 6.619A/T Late....60
John Deere 3TNE84 84mm Bore Non Turbo....62
John Deere 4TNE84T 84mm Bore Turbo....64
John Deere 4TNE88 88mm Bore Non Turbo....66
John Deere 4TNV84 84mm Bore Non Turbo....68
John Deere 3TNV88 88mm Bore Non Turbo....70
John Deere 4TNV98 98mm Bore Non Turbo Direct Injection....72
John Deere 3029 2.9D Piston (m) RE61467....74
John Deere 3029 2.9T Piston (m) RE61270....76
John Deere 4024TL, TIER 3, PISTON (M) RE522094....78
John Deere 4024TT Late, TIER 2 & 3, PISTON (M) RE526785....80
John Deere 4045 4.5T/H Piston (m) RE55512/RE505102....82
John Deere 4045 4.5T/H Piston (m) RE521616 Tier 2 & Tier 3....84
John Deere 4045 4.5T/H Piston (m) RE507758 Tier 2 & Tier 3....86
John Deere 4045 4.5T/H Piston (m) RE545770 Tier 2 & Tier 3....88
John Deere 4045T 4.5T Piston (m) RE59277/RE505100....90
John Deere 4045 4.5T/H Piston (m) RE544607 Interim Tier 4....92
John Deere 4045 4.5T/H Piston (m) RE570485 Tier 4 Final....94
John Deere 5030TT Early, TIER 2, PISTON (M) RE516347....96
John Deere 5030HF, TIER 3, PISTON (M) RE527622....98
John Deere 6068 6.8T/H Piston (m) RE521616 Tier 2 & Tier 3....100
John Deere 6068 6.8T/H Piston (m) RE507758 Tier 2 & Tier 3....102
John Deere 6068 6.8T/H Piston (m) RE545770 Tier 2 & Tier 3....104
John Deere 6068 6.8L Piston (m) RE553821 Tier 4 Final....106
John Deere 6068D 6.8D Piston (m) RE59279/RE505101....108
John Deere 6081 High Compression Piston, to ESN 199,999....110
John Deere 6081 Forged Steel Piston, from ESN 200,000 and up....112
John Deere PowerTech 6090 9.0L Tier 4, Piston # RE555132....114
John Deere PowerTech 6125, Piston # RE505901, RE518748, RE524324....116
John Deere PowerTech 6135, Piston # R517128 Tier 3....118
John Deere 3.152 O'rings on Block....3
John Deere 3.164 Small Pin, O'rings on Block....5
John Deere 3.179D....7
John Deere 3.179T....9
John Deere 4.202 O'rings on liner....11
John Deere 4.219 Small Pin, O'rings on Liner....13
John Deere 4.219 Large Pin, O'rings on Block....15
John Deere 4039D Liter Designated....17
John Deere 4039T Liter Designated....19
John Deere 4.276D Large Pin....21
John Deere 4.276T....23
John Deere 6.303 O'rings on Liner....25
John Deere 6.329 Small Pin, O'rings on Liner....27
John Deere 6.329 Large Pin, O'rings on Block....29
John Deere 6059D Liter Designated....31
John Deere 6059T Liter Designated....33
John Deere 6068D Liter Designated, Large Pin....35
John Deere 6068T Liter Designated....37
John Deere 4.270 To ESN 280,000....39
John Deere 4.270 From ESN 280,001....41
John Deere 6.404D To ESN 214,999....43
John Deere 6.404D ESN 215,000 – 335,845....45
John Deere 6.404T/A To ESN 335,845....47
John Deere 6.466D....49
John Deere 6.466A/T Con Rod (m) R71074....51
John Deere 6076 T/A/H Low Ring Piston....53
John Deere 6.531D See Con. Rod (m)....55
John Deere 6.531A See Con. Rod (m)....57
John Deere 6.619A/T Mid....59
John Deere 6.101A/T TO ESN 499,999....61
John Deere 4TNE84 84mm Bore Non Turbo....63
John Deere 3TNE88 88mm Bore Non Turbo....65
John Deere 3TNV84 84mm Bore Non Turbo & Turbo....67
John Deere 4TNV84T 84mm Bore Turbo....69
John Deere 4TNV88 88mm Bore Non Turbo....71
John Deere 4TNV98T 98mm Bore Turbo Direct Injection....73
John Deere 3029 2.9D/T Piston (m) RE520573....75
John Deere 3029 2.9T Piston (m) RE500211....77
John Deere 4024TT Early, TIER 2, PISTON (M) RE516347....79
John Deere 4024HF, TIER 3, PISTON (M) RE527622....81
John Deere 4045 4.5T/H Piston (m) RE527039 Tier 2 & Tier 3....83
John Deere 4045 4.5T/H Piston (m) RE515037 Tier 2 & Tier 3....85
John Deere 4045 4.5T/H Piston (m) RE515037 Tier 2 & Tier 3 (2)....87
John Deere 4045D 4.5D Piston (m) RE59279/RE505101....89
John Deere 4045 4.5T/H Piston (m) RE544601 Interim Tier 4....91
John Deere 4045 4.5T/H Piston (m) RE551101 Tier 4 Final....93
John Deere 5030TT Late, TIER 2 & 3, PISTON (M) RE526785....95
John Deere 5030TL, TIER 3, PISTON (M) RE522094....97
John Deere 6068 6.8T/H Piston (m) RE55512 / RE505102....99
John Deere 6068 6.8T/H Piston (m) RE515037 Tier 2 & Tier 3....101
John Deere 6068 6.8T/H Piston (m) RE527039 Tier 2 & Tier 3 (2)....103
John Deere 6068 6.8L Piston (m) RE544601 Interim Tier 4....105
John Deere 6068 6.8L Piston (m) RE544607 Interim Tier 4....107
John Deere 6068T 6.8T Piston (m) RE59277 / RE505100....109
John Deere 6081 Low Compression Piston, to ESN 199,999....111
John Deere PowerTech 6090 9.0L Tier 2 & 3, Piston # RE529264....113
John Deere PowerTech 6090 9.0L Tier 4, Piston # DZ102298....115
John Deere PowerTech 6125, Piston # RE515356, RE517209, RE524325....117

CATALOG INDEX:

Perkins®

Perkins 104-22 ... 119
Perkins 403C-17 (HM), 403D-17 (GS) ... 121
Perkins 403D-15T (GL) ... 123
404C-22T Perkins ... 125
Perkins 404D-22T (GP) ... 127
Perkins 404F-22 (EN) ... 129
Perkins 404F-E22T/TA (EQ, ER) ... 131
Perkins 704-30 (UC) Turbocharged ... 133
PERKINS 804C-33T (UF) ENGINE, TURBOCHARGED ... 135
PERKINS 804D-33T (UL) Engine, TURBOCHARGED Piston MPPK2001 ... 137
Perkins 1004.40 2 ... 139
Perkins 1004.40T from ESN U608301W (1992) ... 141
Perkins 1004.40/40T ... 143
Perkins 1004.42 ... 145
Perkins 1006.60 ... 147
Perkins 1006.60T From ESN 557977X ... 149
Perkins 1006.60T Grade L Fractured Split Rod ... 151
Perkins 1006.60T YG, YH, YK, YJ Builds Fractured Split Rod ... 153
Perkins 1103C (DC) (XK) BUILDS ... 155
Perkins 1103C-33T (DD) ... 157
Perkins 1103D-33T (XL), 1103D-33TA (XM) ... 159
Perkins 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR) ... 161
Perkins 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR) 3 ... 163
Perkins 1104C-44T (RG), (RH), (RK), (RS), (RT) BUILDS ... 165
Perkins 1104C-44T (RG), 1104C-E44T (RH) ... 167
Perkins 1104A-44T (RS) 3 ... 169
Perkins 1104A-44T (RS) ... 171
Perkins 1104D-44T (NL), 1104D-44TA (NM) ... 173
Perkins 1104D-E44TA (NJ) 0059 ... 175
Perkins 1104D-E44TA (NJ) 0061 ... 177
Perkins 1106-E60TA VK BUILDS ... 179
Perkins 1106C-E66TA (PK), 1106D-E66TA (PJ) 0058 ... 181
Perkins 1106A-70TG (PP), 1106A-70TA (PR) ... 183
Perkins 1106D-E70TTA (PW) ... 185
Perkins 1206E-E70TTA (BL) ... 187
Perkins 1204E-E44TA (MK,ML), 1204F-E44TTA (MU,MW) ... 189
Perkins 3.152 from ESN 1935854 ... 191
Perkins D3.152 to ESN UA391044D ... 193
Perkins D3.152 to ESN UA391044DS ... 195
Perkins D3.152 Direct Injection 2 ... 197
Perkins 3.152.4 Lip Seal ... 199
Perkins G3.152 ... 201
Perkins 4.108 Marine ... 203
Perkins 4.203 from ESN 2820093 ... 205
Perkins 4.203 Lip Seal ... 207
Perkins D4.203 to ESN 2939035 ... 209
Perkins D4.203 to ESN U589378L ... 211
Perkins 4.203.2 Lip Seal ... 213
Perkins 4.212 From ESN UA187117L ... 215
Perkins 4.236 from ESN U106655N ... 217
Perkins 4.236 from ESN U106655N 2 ... 219
Perkins G4.236 from ESN U106655N ... 221
Perkins C4.236 from ESN U106655N ... 223
Perkins T4.236 to ESN U106654N ... 225
Perkins T4.236 To ESN U390301U ... 227
Perkins 4.248 to ESN UA123423L ... 229
Perkins 4.248 Rope & Lip Seal ... 231
Perkins 4.318 Rope & Lip Seal ... 233
Perkins 6.354 Rope ... 235
Perkins T6.354.1/TC6.354.1 ... 237
Perkins 6.354.2 Rope & Lip Seal ... 239
Perkins 6.354.4 Lip Seal 2 ... 241
Perkins 6.354.4 Lip Seal 4 ... 243
Perkins T6.354.4 Lip Seal 2 ... 245
403C-15 Perkins ... 120
Perkins 403A-15 (GU), 403D-15 (GK) ... 122
Perkins 404C-22 Perkins ... 124
Perkins 404A-22 (GV), 404D-22 (GN) ... 126
Perkins 404D-22TA (GR) ... 128
Perkins 404F-22T (EP) ... 130
Perkins 704-30 (UA) Naturally Aspirated ... 132
PERKINS 804C-33 (UE), 804D-33 (UK) ENGINE, NATURALLY ASPIRATED ... 134
PERKINS 804D-33T (UL) Engine, TURBOCHARGED ... 136
Perkins 1004.40 ... 138
Perkins 1004.40T to ESN U608300W (1992) ... 140
Perkins 1004.40T GRADE L ... 142
Perkins 1004.40/40T Fractured Split Rod ... 144
Perkins 1004.42 Fractured Split Rod ... 146
Perkins 1006.60T To ESN 557976X ... 148
Perkins 1006.60T Grade L ... 150
Perkins 1006.60T YG, YH, YK, YJ Builds ... 152
Perkins 1103C (DC) (DF) (DJ) (XK) BUILDS ... 154
Perkins 1103C (DD) (DE) (DG) (DK) BUILDS ... 156
Perkins 1103C-33T (DD), 1103A-33 (DK) ... 158
Perkins 1103D-33T (XL), 1103D-33TA (XM) 2 ... 160
Perkins 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR) 2 ... 162
Perkins 1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR) 4 ... 164
Perkins 1104C-44T (RG), (RJ), (RK) BUILDS ... 166
Perkins 1104C-44T (RG), 1104C-E44T (RH) 2 ... 168
Perkins 1104A-44T (RS) 2 ... 170
Perkins 1104D-44 (NK) ... 172
Perkins 1104D-E44T (NH), 1104D-E44TA (NJ) 0058 ... 174
Perkins 1104D-E44T (NH), 1104D-E44TA (NJ) 0060 ... 176
Perkins 1104D-E44T (NP), 1104D-E44TA (NR) T417728 ... 178
Perkins 1106-E60TA VK BUILDS Fractured Split Rod ... 180
Perkins 1106C-E66TA (PK), 1106D-E66TA (PJ) 0059 ... 182
Perkins 1106C-70TA (PT), 1106D-70TA (PU) ... 184
Perkins 1106D-E70TTA (PW) ... 186
Perkins 1204E-E44TA (MK) ... 188
Perkins 1206E-E66TA (BK) (BL) ... 190
Perkins 3.152 to ESN 1935853 ... 192
Perkins D3.152 From ESN UA391045DL ... 194
Perkins D3.152 Direct Injection 1 ... 196
Perkins D3.152 From ESN UA391045DSL ... 198
Perkins T3.152.4 Lip Seal ... 200
Perkins 4.108 Industrial ... 202
Perkins 4.203 To ESN 2820092 ... 204
Perkins 4.203 Rope & Lip Seal ... 206
Perkins D4.203 ESN 2939036-29C1084 ... 208
Perkins D4.203 From ESN 29C1085 ... 210
Perkins D4.203 from ESN U589379L ... 212
Perkins G4.203 Lip Seal ... 214
Perkins 4.236 to ESN U106654N ... 216
Perkins 4.236 to ESN U106654N 2 ... 218
Perkins G4.236 to ESN U106654N ... 220
Perkins C4.236 to ESN U106654N ... 222
Perkins T4.236 from ESN U027774M ... 224
Perkins T4.236 from ESN U106655N ... 226
Perkins T4.236 From ESN U390302U ... 228
Perkins 4.248 from ESN UA123424L ... 230
Perkins 4.248.2 Lip Seal ... 232
Perkins 6.354 Rope & Lip Seal ... 234
Perkins T6.354 Rope ... 236
Perkins 6.354.1 Lip Seal ... 238
Perkins 6.354.4 Lip Seal ... 240
Perkins 6.354.4 Lip Seal 3 ... 242
Perkins T6.354.4 Lip Seal ... 244
Perkins T6.354.4 Lip Seal 3 ... 246

CATALOG INDEX:

Caterpillar®

Caterpillar 3013C (C1.5) 247
Caterpillar 3013C (C1.7) 248
Caterpillar 3014 249
Caterpillar 3024/C 250
Caterpillar 3024C/T 251
Caterpillar 3034C Naturally Aspirated 252
Caterpillar 3034C/T Turbocharged 253
CATERPILLAR 3044C NATURALLY ASPIRATED 254
CATERPILLAR 3044CT TURBOCHARGED 255
CATERPILLAR 3044C/T TURBOCHARGED 256
CATERPILLAR 3044C/T TURBOCHARGED, DIRECT INJECTION 257
CATERPILLAR 3044C/T TURBOCHARGED 258
CATERPILLAR 3046 NATURALLY ASPIRATED 259
CATERPILLAR 3046 NATURALLY ASPIRATED 260
CATERPILLAR 3046 TURBOCHARGED 261
CATERPILLAR 3046 TURBOCHARGED 262
CATERPILLAR 3046 TURBOCHARGED 263
CATERPILLAR 3046 TURBOCHARGED 264
Caterpillar 3054 416/426 BACKHOES 265
Caterpillar 3054T 416/426 BACKHOES 266
Caterpillar 3054 ESN 6FK1-UP 267
Caterpillar 3054T ESN 6FK1-UP 268
Caterpillar 3054T PISTON GRADE L 269
Caterpillar 3054T PISTON GRADE K 270
Caterpillar 3054 ESN 5YS1-13498 271
Caterpillar 3054 ESN 5YS13499-UP 272
Caterpillar 3054B ESN 5MF1-10869 273
Caterpillar 3054B ESN 5MF10870-UP 274
Caterpillar 3054C/E ESN 3341-UP 275
Caterpillar 3054C/E ESN 3341-UP 2 276
Caterpillar 3054C/E ESN CRS1-UP 277
Caterpillar 3054C/E Naturally Aspirated 278
Caterpillar 3054C/E ESN 3341-UP 3 279
Caterpillar 3054C/E ESN 3341-UP 4 280
Caterpillar 3054C/E ESN CRX107-UP 281
Caterpillar 3054C/E TURBOCHARGED 282
Caterpillar 3054C/E TURBOCHARGED 283
Caterpillar 3056 ESN 1ML1-UP 284
Caterpillar 3056T ESN 1ML1-UP 285
Caterpillar 3056T 286
Caterpillar 3056 ESN 7MS1-2098 287
Caterpillar 3056 ESN 7MS2099-UP 288
Caterpillar 3056E ESN CPT1-843 289
Caterpillar 3056E ESN CPT844-UP 290
Caterpillar 3064T 291
Caterpillar 3064T 292
Caterpillar 3066 293
Caterpillar 3066 294
Caterpillar 3066 295
Caterpillar 3066 296
Caterpillar C2.2 Naturally Aspirated 297
Caterpillar C2.2 Turbocharged 298
Caterpillar C2.2 Turbocharged-Aftercooled 299
Caterpillar C2.2 CRT Tier 4 300
Caterpillar C3.3 301
Caterpillar C3.3 ESN E3J1-UP 302
Caterpillar C3.3T Industrial 303
Caterpillar C3.3T ESN E3J1-UP 304
Caterpillar C3.3T Industrial Turbocharged 305
Caterpillar C3.3B, Tier 3/IT4 306
Caterpillar C3.3B, Tier 4 307
Caterpillar C3.8, Tier 3/IT4 308
Caterpillar C4.2 TURBO 309
Caterpillar C4.4B ACERT – Piston #361-2486 310
Caterpillar C4.4B ACERT – Piston #360-3987 311
Caterpillar C4.4T/TA 312
Caterpillar C4.4T/TA 9269 313
Caterpillar C4.4T/TA 9905 314
Caterpillar C6.4 TURBO 315
Caterpillar C6.6 7475 316

Yanmar®

Yanmar 3TNE82A 325
Yanmar 3TNE84 326
Yanmar 4TNE84 327
Yanmar TK486 328
Yanmar 3TNE88 329
Yanmar 4TNE88 330
Yanmar 4TNE92 331
Yanmar 4TNE94 332
Yanmar 4TNE98 DIRECT INJECTION 333
Yanmar 4TNE98 INDIRECT INJECTION 334
Yanmar 4TNE106D 335
Yanmar 4TNE106T 336
Yanmar 3TNV70 337
Yanmar 3TNV76 338
Yanmar 3TNV82A 339
Yanmar 3TNV84 340
Yanmar 4TNV84 341
Yanmar 4TNV84T 342
Yanmar TK486V 343
Yanmar 4TNV86CT, Turbo, Common Rail Injection 344
Yanmar 3TNV88 345
Yanmar 4TNV88 346
Yanmar 3TNV88C, Common Rail Injection 347
Yanmar 4TNV88C, Common Rail Injection 348
Yanmar 4TNV94L 349
Yanmar 4TNV98 350
Yanmar 4TNV98 D2 351
Yanmar 4TNV98C, Non-Turbo, Common Rail Injection 352
Yanmar 4TNV98T 353
Yanmar 4TNV98T 2 354
Yanmar 4TNV98CT, Turbo, Common Rail Injection 355
Yanmar 4TNV106 356

Cummins®

Cummins 4B 3.3 PISTON (M): 2170 357
Cummins 4B 3.3 PISTON (M): 2200 358
Cummins 4BT 3.3 PISTON (M): 2300 359
Cummins 4BT 3.3 QSB PISTON (M): 4941139 360
Cummins 4BT 3.3 QSB PISTON (M): 4944477 361
Cummins 4BT 3.3 QSB PISTON (M): 5272092 362
Cummins 4BT 3.9 Piston (m): 7163 363
Cummins 4BTA 3.9 Piston (m): 7156 364
Cummins 4B 3.9 Piston (m): 6223 365
Cummins 4BT 3.9 Piston (m): 6632 366
Cummins 4BTA 3.9 Piston (m): 9041 367
Cummins 4BTA 3.9 Piston (m): 8673 368
Cummins 4BT 3.9 Piston (m): 0187 369
Cummins 6BT 5.9 Piston (m): 7163 370
Cummins 6BTA 5.9 Piston (m): 7156 371
Cummins 6B 5.9 Piston (m): 6223 372
Cummins 6BT 5.9 Piston (m): 1400 373
Cummins 6BT 5.9 Piston (m): 6632 374
Cummins 6BTA 5.9 Piston (m): 2571 375
Cummins 6BTA 5.9 Piston (m): 7619 376
Cummins 6BTA 5.9 Piston (m): 9041 377
Cummins 6BTA 5.9 Piston (m): 8673 378
Cummins 6BTA 5.9 Piston (m): 0187 379
Cummins 6BTA 5.9 ISB Piston (m): 6153 380
Cummins 6BTA 5.9 ISB Piston (m): 6050 381
Cummins 5.9 ISB, FGT, 8675 382
Cummins 5.9 ISB, RGT, 8675 383
Cummins 5.9 ISB, FGT, 5497 384
Cummins 5.9 ISB, RGT, 5497 385
Cummins 5.9 ISB, FGT, 0192 386
Cummins 4BT 3.9 QSB Piston (m): 7416 387
Cummins 4BT 3.9 QSB Piston (m): 7795 388
Cummins 4BT 4.5 QSB 389
Cummins 6BT 5.9 QSB Piston (m): 7416 390
391

Caterpillar C6.6 2224 317
Caterpillar C6.6 ACERT 318
Caterpillar C7.1 – Piston #415-4315 319
Caterpillar C7.1 – Piston #575-3355 320
Caterpillar C7.1 – Piston #389-5891 321
Caterpillar C7.1 – Piston #444-2190 322
Caterpillar C7.1 – Piston #361-2460 ACERT 323
Caterpillar C7.1 – Piston #436-7786 ACERT 324
Cummins 6BT 6.7 QSB, CM850 (m): 7795 392
Cummins 6.7 ISB, Chrysler 2007-2010 393
Cummins 6.7 ISB, CM2150/2250, 2010.5-2012 394
Cummins 6.7 ISB, CM2350, 2013-2018 395
Cummins 6.7 ISB, CM2350, 2013-2018, High HP 396
Cummins 6CT 8.3 Piston (m): 3163 397
Cummins 6CT 8.3 Piston (m): 3165 398
Cummins 6CT 8.3 Piston (m): 7707 399
Cummins 6CT 8.3 Piston (m): 9566 400
Cummins 6CTA 8.3 Piston (m): 3164 401
Cummins 6CTA 8.3 Piston (m): 3537 402
Cummins 6CTA 8.3 Piston (m): 9161 403
Cummins 6CTA 8.3 Piston (m): 9247 404
Cummins 6CTA 8.3 Piston (m): 5878 405
Cummins QSC 8.3 Piston (m): 2106, 3446 406

CATALOG INDEX:

Kubota®

Kubota 02 Series D902 407
Kubota 05 Series D905 Indirect Injection 408
Kubota 05 Series D1105 Indirect Injection 409
Kubota 05 Series D1105T Indirect Injection 410
Kubota 05 Series V1505 Indirect Injection 411
Kubota 05 Series V1505T Indirect Injection 412
Kubota 02 Series V1702 Indirect Injection 413
Kubota 03 Series V2003-M Indirect Injection 414
Kubota 03 Series V2003-M Indirect Injection 415
Kubota 03 Series V2003-M-DI-T Direct Injection 416
Kubota 03 Series V2003-T Indirect Injection 417
Kubota 03 Series V2003-T Indirect Injection 418
Kubota 03 Series V2203-M-DI / V2403-M-DI Direct Injection 419
Kubota 03 Series V2203 Indirect Injection 420
Kubota 03 Series V2203-E2B Indirect Injection 421
Kubota 03 Series V2203-M / V2403-M Indirect Injection 422
Kubota 03 Series V2403-M-DI-T Direct Injection 423
Kubota 03 Series V2403-M-T-E3B Direct Injection 424
Kubota V2607 Direct Injection 425
Kubota V2607 Direct Injection Turbocharged 426
Kubota V3 Series V3300 Indirect Injection 427
Kubota V3 Series V3300-DI Direct Injection 428
Kubota V3307 Direct Injection, W/EGR 429
Kubota V3307-CR Common Rail Injection 430
Kubota V3 Series V3800-DI Direct Injection 431
Kubota V3 Series V3800-CR-T IT4 432

Mitsubishi®

MITSUBISHI S4S INDIRECT INJECTION, NATURALLY ASPIRATED 433
MITSUBISHI S4S-DT DIRECT INJECTION TURBOCHARGED 434
MITSUBISHI S4S-DT DIRECT INJECTION, TURBOCHARGED 435
MITSUBISHI S4S-DT DIRECT INJECTION, TURBOCHARGED 436
MITSUBISHI S6S INDIRECT INJECTION NATURALLY ASPIRATED 437
MITSUBISHI S4K-T 438
MITSUBISHI S4K-T 439
MITSUBISHI S6S-D DIRECT INJECTION NATURALLY ASPIRATED 440
MITSUBISHI S6S-DT DIRECT INJECTION TURBOCHARGED 441
MITSUBISHI S6K 442
MITSUBISHI S6K 1 443

Shibaura®

N843 Shibaura Tier 1 & 2 444
N843L Shibaura Tier 1 & 2 445
N844 Shibaura Tier 1 & 2 446
N844T Shibaura Tier 1 & 2 447
N844L Shibaura Tier 1 & 2 448
N844LT Shibaura Tier 1 & 2 449
N844L-D Shibaura Tier 3 450
N844LT-D Shibaura Tier 3 451
N844LTA-D Shibaura Tier 3 452
N844L-F Shibaura Tier 4 453
N844LT-F Shibaura Tier 4 454
Shibaura N4LDI-T, Tier 4B/4F 455

IH/Navistar®

International Harvester / Navistar DT360 456
International Harvester / Navistar DT414 457
International Harvester / Navistar DT436 458
International Harvester / Navistar DT466 To ESN 440,035 459
International Harvester / Navistar DT466 (ESN 440,036 – 567,491) / Perkins 1300 Series (WB & WC Builds)

FPT®

FPT IVECO NEF – N45 Piston #87317238 461
FPT IVECO NEF – N45 Piston #8094740 462
FPT IVECO NEF – N45 Piston #8097543 463
FPT IVECO NEF – N45 Piston #8094846 464
FPT IVECO NEF – N45 Piston #87317256 465
FPT IVECO NEF – N45 Piston #8097879 466
FPT IVECO NEF – N67 Piston #87317238 467
FPT IVECO NEF – N67 Piston #8094740 468
FPT IVECO NEF – N67 Piston #8097543 469
FPT IVECO NEF – N67 Piston #8094846 470
FPT IVECO NEF – N67 Piston #87317256 471
FPT IVECO NEF – N67 Piston #8097879 472
FPT IVECO – CURSOR 9 – PISTON #500055469 473