



Service Repair Manual

Models

436C BACKHOE LOADER

Product: BACKHOE LOADER

Model: 436C BACKHOE LOADER 1PR

Configuration: 436C Backhoe Loader Center Pivot, Parallel Lift 1PR00001-01598 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

Media Number -SEN6241-13

Publication Date -01/08/2008

Date Updated -04/08/2008

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Pistons and Connecting Rods - Remove

SMCS - 1225-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2269	Ridge Reamer	1

Start By:

- A. Remove the cylinder head. Refer to Disassembly and Assembly, "Cylinder Head - Remove".
- B. Remove the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump - Remove".
- C. Remove the piston cooling jets. Refer to Disassembly and Assembly, "Piston Cooling Jets - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Use Tooling (A) to remove the liner wear ridge from the inner surface of the cylinder liner.
2. Position the two pistons that are being removed at the bottom center position.

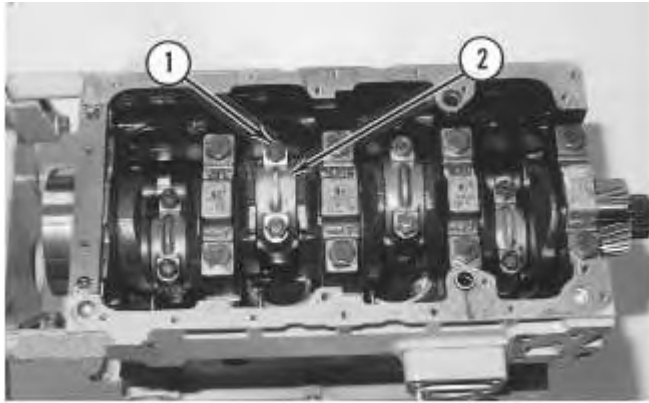


Illustration 1

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3. Remove nuts (1) and the bolts.
4. Remove connecting rod caps (2) and the connecting rod bearings. Keep connecting rod caps (2) and the connecting rod bearings together for installation.

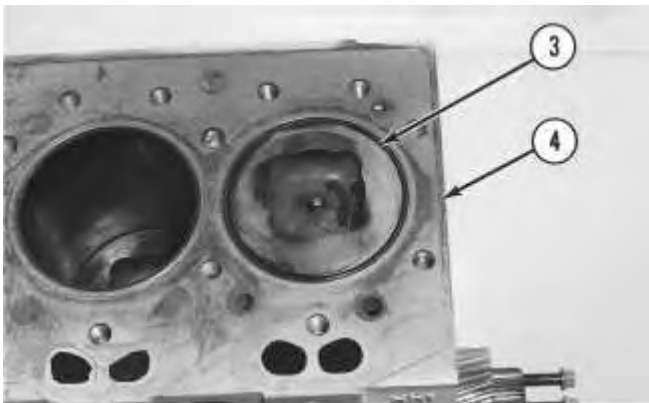


Illustration 2

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5. Push pistons (3) and the connecting rods out of the top of cylinder block (4) .

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Pistons and Connecting Rods - Disassemble

SMCS - 1225-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-6683	Ring Expander	1
B	1P-1857	Retaining Ring Pliers	1

Start By:

- Remove the pistons and the connecting rods. Refer to Disassembly and Assembly, "Piston and Connecting Rods - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



Illustration 1

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Typical example

1. Use Tooling (A) in order to remove three piston rings (1) from piston (2).

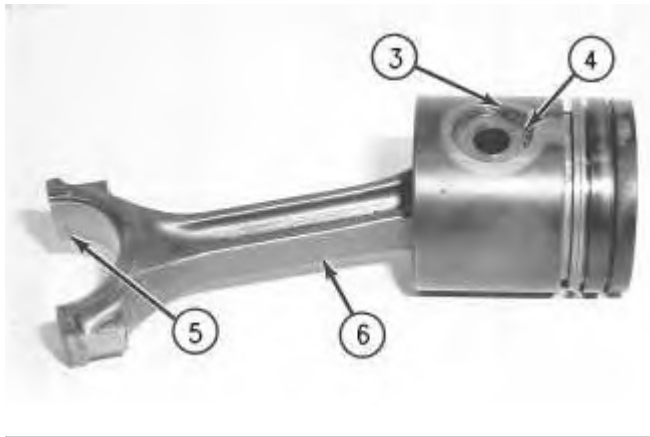


Illustration 2

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Typical example

2. Use Tooling (B) in order to remove retaining rings (3) that hold the piston pin in position.
3. Remove piston pin (4) from the piston.

Note: If the piston pin cannot be removed by hand, heat the piston to a temperature of 45 ± 5 °C (113 ± 9 °F). Do not use a torch to heat the piston.

4. Remove bearing (5) from connecting rod (6).

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