

Product: BACKHOE LOADER

Model: 436B BACKHOE LOADER 7FL

Configuration: 436B BACKHOE LOADER 7FL00001-UP (MACHINE) POWERED BY 3054 ENGINE

Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

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i01543773

Engine Oil Pump - Remove

SMCS - 1304-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1855	Retaining Ring Pliers	1
B	9U-6282	Torque Wrench Extension	1

Start By:

- A. Remove the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".
- B. Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".

Note: The engine oil pump is mounted on the No. 1 crankshaft main bearing cap. The engine oil pump can be removed without removing the front housing if the No. 1 crankshaft main bearing cap is removed. Use Tool (B) in order to remove the No. 1 crankshaft main bearing cap. The engine oil pump is then removed from the No. 1 crankshaft main bearing cap.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.



Illustration 1

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1. Remove two bolts (1) that fasten the strainer and suction pipe to the engine oil pump.
 2. Remove bolt (2) that holds the strainer in position.
 3. Remove the strainer, suction pipe (3), and the gasket from the engine.
 4. Remove the engine oil relief valve. Refer to the Disassembly and Assembly Module, "Engine Oil Relief Valve - Remove".
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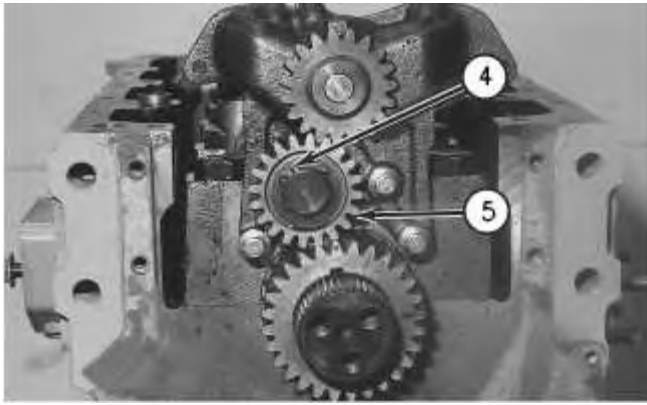


Illustration 2

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5. Use Tool (A) to remove retaining ring (4) from the idler gear shaft.
6. Remove idler gear (5) from the idler gear shaft. Inspect the idler gear shaft for wear or damage. If the idler gear shaft is worn or damaged, use a new part for replacement. Use a suitable press to remove the idler gear shaft from the No. 1 main bearing cap.

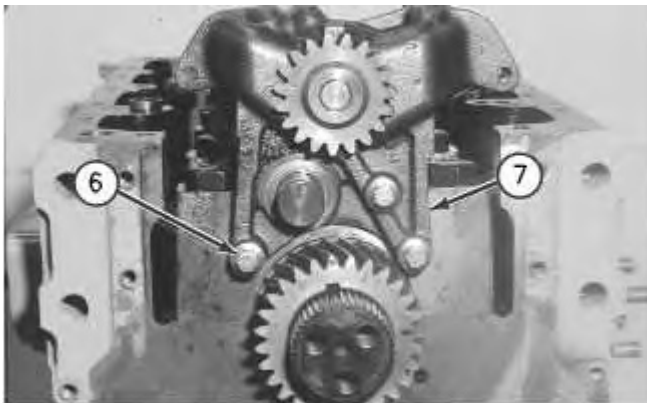


Illustration 3

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7. Remove three bolts (6) from the No. 1 main bearing cap.
 8. Remove engine oil pump (7) from the engine.
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