



Service Repair Manual

Models

CS-683E Vibratory Compactor

Product: VIBRATORY COMPACTOR

Model: CS-683E VIBRATORY COMPACTOR DAD

Configuration: CS-683E Vibratory Compactor DAD00001-UP (MACHINE) POWERED BY 3056E Engine

Disassembly and Assembly 3056E Engine for Caterpillar Built Machines

Media Number -REN2400-06

Publication Date -01/02/2006

Date Updated -03/05/2017

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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

Start By:

- Remove the oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".
- 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. In order to remove the crankshaft main bearing cap bolt for the No. 1 crankshaft journal, use the **9U-6282** Torque Wrench Extension. 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 Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

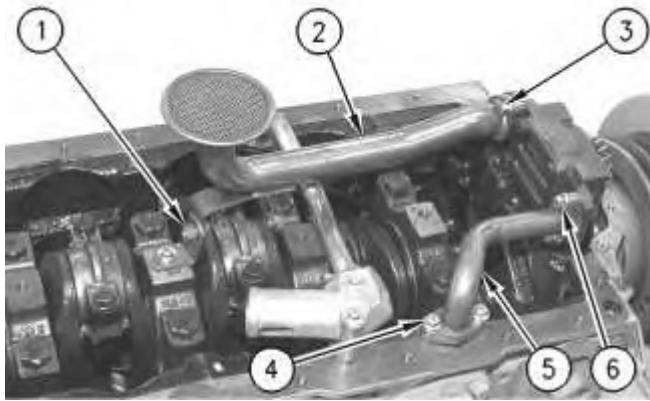
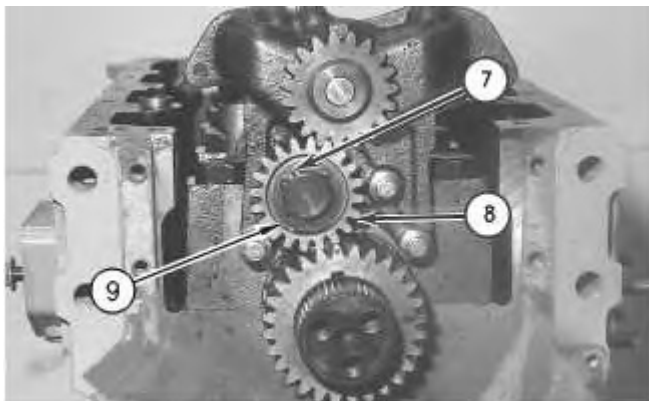


Illustration 1

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1. Remove the nut and bolt (1) from the bracket.
2. Remove bolts (3) and suction pipe (2).
3. Remove bolts (4) and (6) from oil supply tube assembly (5).
4. Remove the oil supply tube assembly (5) from the cylinder block and the engine oil pump.



5. Use Tooling (A) to remove retaining ring (7).
6. Remove idler gear (8) and remove washer (9). Inspect the shaft of the idler gear for wear or damage. Use a suitable press to remove the shaft for the idler gear from the main bearing cap.

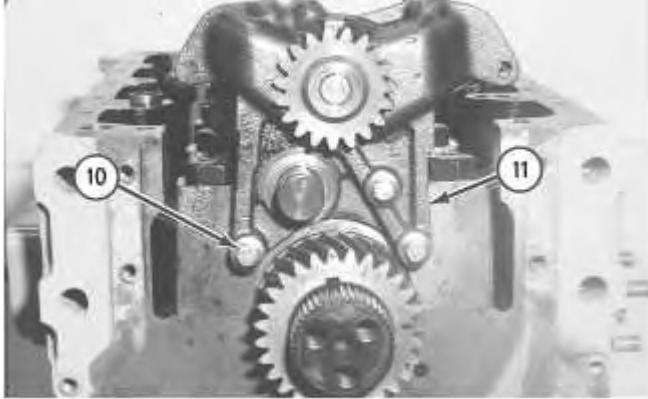


Illustration 3

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7. Remove bolts (10) that fasten the engine oil pump to the cylinder block.
8. Remove engine oil pump (11) from the cylinder block.

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Engine Oil Pump - Install

SMCS - 1304-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1855	Retaining Ring Pliers	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

If any of the parts on the engine oil pump are worn or damaged, the entire pump must be replaced.

Note: If the No. 1 crankshaft main bearing cap was removed, install the No. 1 crankshaft main bearing cap with the engine oil pump. Tighten the bolts for the No. 1 crankshaft main bearing cap to a torque of 265 N·m (195 lb ft).

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