### Service Information Bulletin

**SUBJECT**

Piston and Connecting Rod Assembly

**DATE**

June 2014

### Additions, Revisions, or Updates

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<th>Publication Number / Title</th>
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<td>DDC-SVC-MAN-0081</td>
<td>DD Platform</td>
<td>Removal of the Piston and Connecting Rod Assembly</td>
<td>Removed the bolt length measurement, one time use only.</td>
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<tr>
<td>DDC-SVC-MAN-S181</td>
<td>Euro IV</td>
<td>Removal of the Piston and Connecting Rod Assembly</td>
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2 Removal of the Piston and Connecting Rod Assembly

WARNING: PERSONAL INJURY

To avoid injury, never remove any engine component while the engine is running.

Remove as follows:

1. Drain the engine cooling system. Refer to section "Cooling System Drain Procedure".
2. Drain the engine oil.
3. Remove the oil pan. Refer to section "Check Gear Train".
4. Remove the camshaft housing and associated parts. Refer to section "Removal of the Camshaft Housing".
5. Remove the cylinder head and gasket.
   For the DD13: Refer to section "Removal of the DD13 Cylinder Head".
   For the DD15 and DD16: Refer to section "Removal of the DD15 and DD16 Cylinder Head".

NOTICE: Be cautious not to damage the carbon scraper ring. It will be reused unless it is damaged or the cylinder liner is to be replaced.

6. Use Scotch-Brite® pads to remove any carbon deposits from the upper inner surface (1) of the cylinder liner.

7. For GHG14 engines, remove the Carbon Scraper Ring on the inner diameter of the cylinder liner.
8. Remove the piston oil spray nozzles (1) from the base of the cylinder bores and discard the nozzles.
9. Position the crankshaft for each piston and connecting rod assembly to be removed at bottom dead center.

**NOTICE:** The connecting rod assembly is a cracked rod design. Ensure when the bearing cap is removed that it is placed on its side. Damage to the bearing cap will occur if it is placed on end; the connecting rod assembly will need to be replaced if the cap is damaged.

10. Remove the connecting rod bearing cap with lower bearing shell from the connecting rod. Discard the bolts.

11. Remove the piston and connecting rod assembly through the top of the cylinder liner.

**NOTE:** When removed, the bearing cap and the bearing shell must be assembled to its original connecting rod before another connecting rod bearing cap is removed.
12. Assemble the connecting rod bearing cap and lower bearing shell to the connecting rod after removal. If not already marked, match-mark the rod and cap (on the tang side) with the cylinder number from where they were removed.

13. If piston and/or connecting rod are being reused, Refer to section "Cleaning of the Piston and Connecting Rod Assembly".