Contaminated Fluids

September 2014

Additions, Revisions, or Updates

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<tr>
<th>Publication Number / Title</th>
<th>Platform</th>
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<td>DDC-SVC-MAN-0084</td>
<td>DD Platform</td>
<td>Coolant in Oil</td>
<td>Once a primary failed part has been identified to cause coolant in oil. The Lower End Bearing kit is to be proactively replaced.</td>
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<tr>
<td>DDC-SVC-MAN-0184</td>
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<td>DDC-SVC-MAN-S184</td>
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2 Coolant in Oil

NOTE: Appearance of oil will be brown and have a milky-like state. Oil may be above recommended level as well.

1. Pressurize the cooling system, per Original Equipment Manufacturer (OEM) specifications. Does the system hold pressure?
   a. Yes, the system holds pressure; Go to step 7.
   b. No; the system leaks down; Go to step 2.

2. Remove the oil pan. Refer to section "Removal of the Oil Pan". Pressurize the cooling system, per Original Equipment Manufacturer (OEM) specifications. Where is coolant leaking from?
   a. Between the piston and liner; Go to step 3.
   b. Between the liner and block; Go to step 4.
   c. From the gear train or an oil return passage; Go to step 5.
   d. No oil leaks are found present; Go to step 7.

3. Remove the cylinder head and inspect for a failed cylinder kit; Refer to section "Inspection of the Cylinder Liner". Was a failed cylinder kit found?
   a. Yes; replace lower end bearing kit, make necessary repairs, flush cooling system, and change engine oil.
   b. No; Go to step 4.

4. Remove the cylinder liner where the leak was found; Refer to section "Inspection of the Cylinder Liner". Was damage found?
   a. Yes; replace lower end bearing kit, make necessary repairs, flush cooling system, and change engine oil.
   b. No; Go to step 7.

5. Pressure test the Oil Cooler. Refer to section "Inspection and Pressure Testing of the Oil Cooler". Were leaks found?
   a. Yes, leaks are found. Replace lower end bearing kit, make necessary repairs, flush cooling system, and change engine oil.
   b. No, leaks are not found; Go to step 6.

6. Remove the cylinder head and inspect the cylinder head gasket for torn or debonded grommets.
   a. If damage is found, replace lower end bearing kit, make necessary repairs, flush cooling system, and change engine oil.
   b. If no damage is found, Go to step 7.

7. Is fault code SPN 100/FMI 1 Low Engine Oil Pressure present?
   a. Yes; Refer to section "Inspection of the Main and Connecting Rod Bearing in Chassis". Go to step 8.
   b. No; Go to step 8.

8. Send an oil sample out for analysis. Was it confirmed to be contaminated with coolant?
   a. Yes; Contact the Detroit™ Customer Support Center (CSC) at 800-445-1980.
   b. No; troubleshooting complete.