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Service Information Bulletin

SUBJECT	DATE
Contaminated Fluids	September 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	Coolant in Oil	Once a primary failed part has been identified to cause coolant in oil. The Lower End Bearing kit is to be proactively replaced.
DDC-SVC-MAN-0184	Euro IV		
DDC-SVC-MAN-S184			



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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.