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Service Information Bulletin

SUBJECT	DATE
Coolant in Oil	August 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	Coolant in Oil	Added additional diagnostics steps 11 and 12.



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2 Coolant in Oil

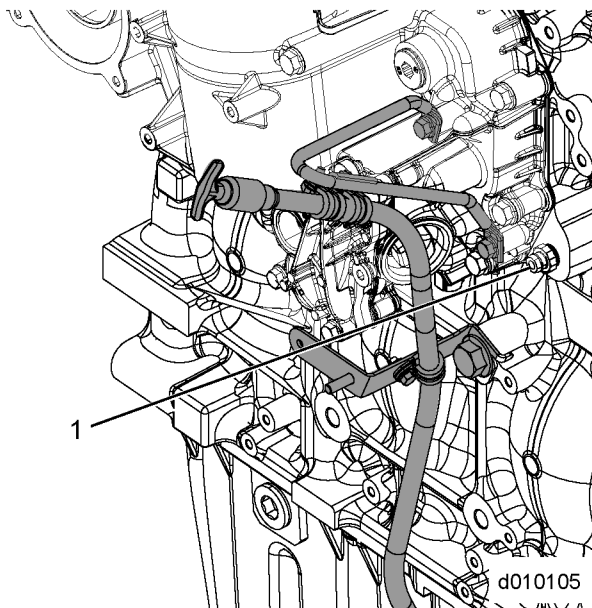
1. Verify that coolant is present in the oil.
 - a. Oil may be above recommended level.
 - b. Appearance will be brown and have milk-like state.
2. Verify last service repair. If the oil coolant module has been replaced recently, it may have been done incorrectly, resulting in coolant in the oil.
3. If fault code SPN 100/FMI 1 is present, the main and connecting rod bearings must be inspected for damage.



WARNING: PERSONAL INJURY

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

4. Remove the oil pan. Refer to section "Removal of the Oil Pan".
5. Pressurize the cooling system, per Original Equipment Manufacturer (OEM) specifications. Inspect for leaks.
 - a. If leaks are found, repair as necessary.
 - b. If there are no leaks, Go to step 6.
6. Drain the coolant from radiator. Refer to OEM procedures.
7. Open the drain plug (1) on the cylinder block located next to the oil coolant module and drain the coolant. Refer to section "Cooling System Drain Procedure".



8. Remove the oil coolant module. Refer to section "Removal of the Oil Coolant Module".
9. Remove the Oil Cooler. Refer to section "Removal of the Oil Cooler".
10. Hot pressure test the oil cooler to 103 kPa (15psi).
 - a. If leaks are found, repair as necessary.
 - b. If no damage is found, Go to step 11.
11. Remove the cylinder head and inspect the cylinder head gasket for torn or debonded grommets. Refer to section "Removal of the DD13 Cylinder Head" or Refer to section "Removal of the DD15 and DD16 Cylinder Head".
 - a. If damage is found, repair as necessary.
 - b. If no damage is found, Go to step 12.
12. Remove the cylinder liners and inspect the upper and lower liner seals for cuts, tears, or rolled seals. Refer to section "Removal of the Cylinder Liner".
 - a. If damage is found, repair as necessary.
 - b. If no damage is found, Contact the Detroit™ Customer Support Center (CSC) at 800-445-1980.