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Service Information Bulletin

SUBJECT	DATE
Symptom Diagnostics - Transmission Fluid Inspection	January 2017

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0140	DT12 Transmission	Transmission Fluid Inspection	This is a new section.



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2 Transmission Fluid Inspection

NOTE: This is to determine what is normal or abnormal for DT12 transmission fluid (metal/color). Please include an 8 ounce sample of the transmission oil with the return of a transmission. Use the 8 ounce plastic bottle for engine oil (p/n 23515823) or something similar.

Reasons to drain DT12 fluid:

- Normal maintenance
- Grinding complaint
- Contaminated with coolant (transmission cooler failure)
- High temp reading in DDEC reports

If transmission fluid is drained, review the following examples to determine next step.

Example 1: Normal; continue with maintenance or diagnostics

Example 2: Normal; continue with maintenance or diagnostics

Example 3: Abnormal; remove fluid screen to inspect for more metal

Example 4: Abnormal; transmission will need to be replaced due to internal damage

Example 5: Abnormal; possible transmission replacement and further diagnostics of contamination is needed.

Table 1.

Example 1: Normal amount of metal on the magnetic drain plug, fluid screen is clear of metal with some small pieces of silicone from gasket material (this is from assembly).



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Table 2.

Example 2: Normal color of the fluid after 80,467 km (50,000 mi). Fluid will have a metallic appearance.



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Table 3.

Example 3: Abnormal amounts of metal on the drain plug.



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Table 4.

Example 4: Metal in the fluid screen can indicate internal damage to bearings or gears.



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Table 5.

Example 5: Contamination of the transmission fluid.



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