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Service Information Bulletin

SUBJECT	DATE
Symptom Diagnosis - Oil Leaks	September 2015

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0140	DT12	Potential Oil Leak Points - Symptoms	This is a new section.

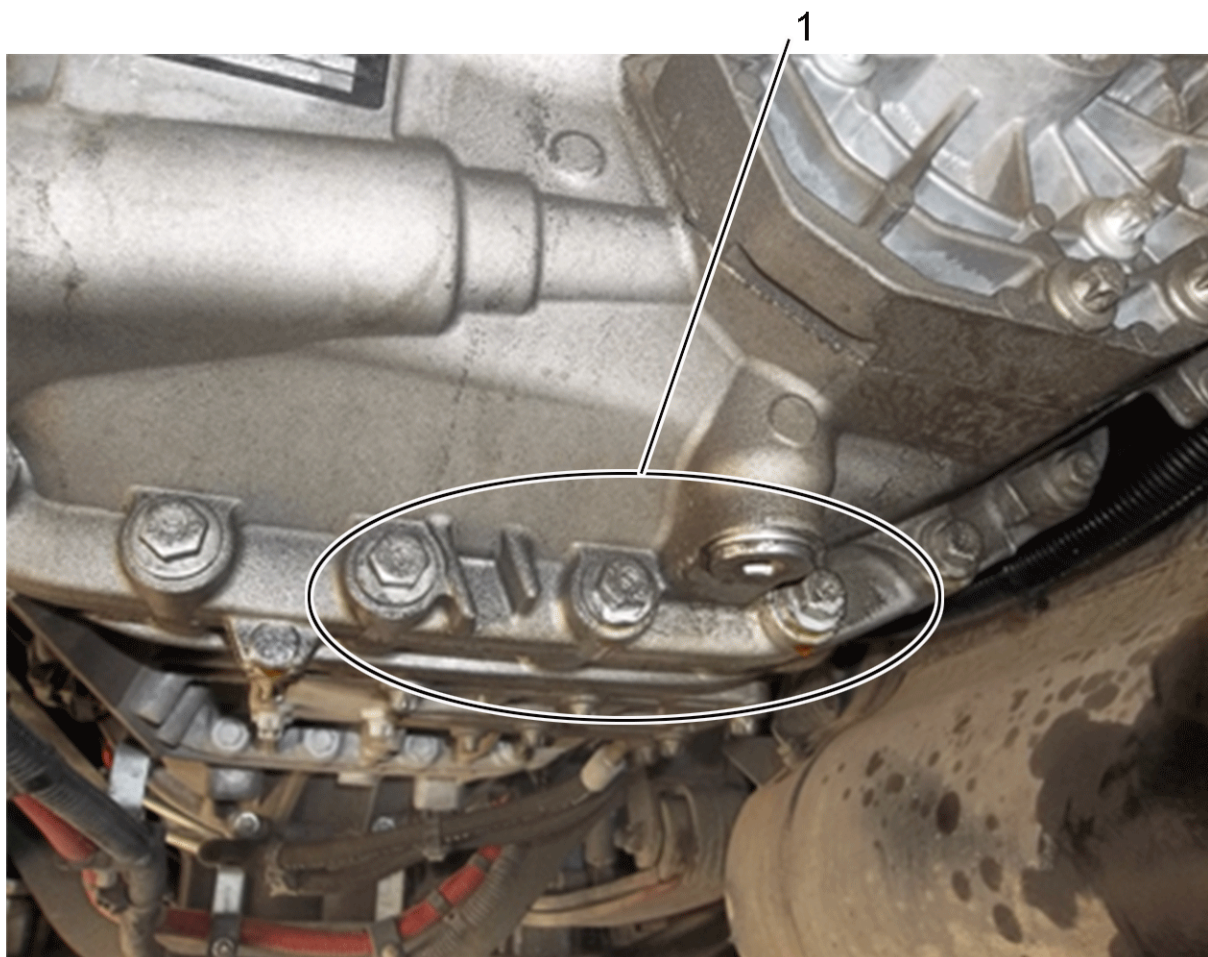


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2 Potential Oil Leak Points - Symptoms

Breather Vent

The breather vent is the most common leak area. Fluid is generally found on the lower rear case (1). See Figure 1. The breather area **MUST** be inspected as a possible leak source; see figures 2 and 3. If the leak is located at the vent, install a breather hose. Refer to section "Oil Vent Breather."



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Figure 1. Fluid Collects at this Location



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Figure 2. Breather Vent Location



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Figure 3. Breather Vent Location

Oil Pump Cover

Always check the breather area first, as fluid may be migrating down from the top of the transmission. Clean the area of the suspected leak, road test vehicle, and, if the leak persists, reseal oil pump cover (1); see Figure 4. Refer to section "Oil Pump Cover".



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Figure 4. Oil Pump Cover

Rear Main Seal

Oil may leak from the bell housing vent hole (1); see Figure 5. However, the actual cause of the leak may be the rear main seal (1); see Figure 6. Refer to section "Crankshaft Oil Seals".



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Figure 5. Bell Housing Vent Hole



d260078

Figure 6. Rear Main Seal**Counter Shaft Brake Housing Seals**

Oil may leak near the counter shaft brake housing seals; see Figure 7. Oil may also leak from the input shaft seal (1); see Figure 8 and 9. Refer to section "Input Shaft Seal."



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Figure 7. Counter Shaft Brake Housing Seal



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Figure 8. Input Shaft Seal Leak Area



1

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Figure 9. Input Shaft

Oil Fill Plug

An oil fill plug that has been cross-threaded will leak (1); see Figure 10.

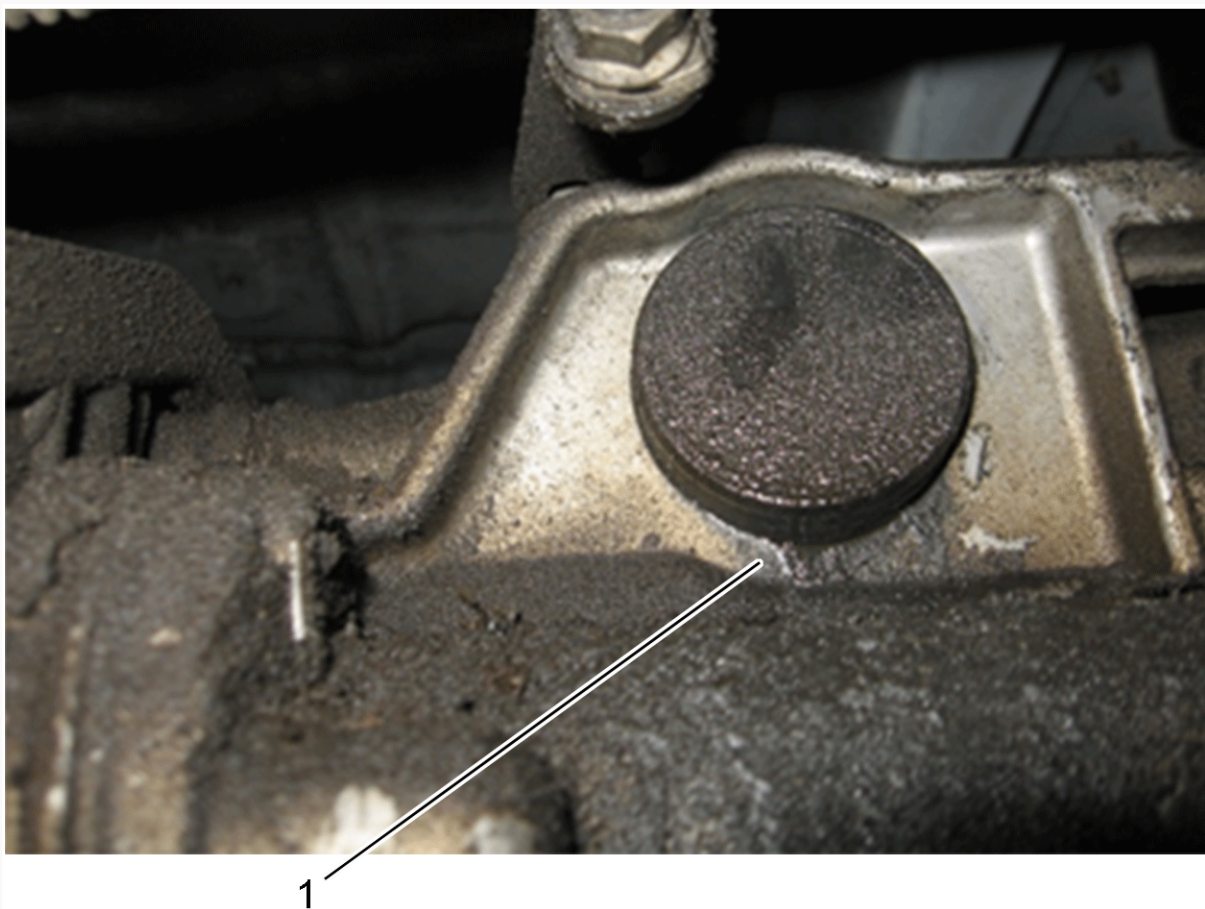


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Figure 10. Cross-threaded Oil Fill Plug

Shift Rail Cap

Fluid may be found on front lower section of the transmission. Inspect for a leaking rail cap (1); see Figure 11. The rail cap may be missing (1); see Figure 12.



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Figure 11. Leaking Rail Cap



1

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Figure 12. Missing Rail Cap