



Technical Service Bulletin

Technical Service Bulletin:
TSB220220

Released Date: 14-Apr-2023

Front Face Cup Plug Missing from Cylinder Head

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- B6.7 CM2350 B121B
- B6.7 CM2450 B155B
- ISB6.7 CM2350 B101
- ISL CM2350 L101
- L9 CM2350 L116B
- L9 CM2350 L123B
- L9 CM2450 L126B

Issue Summary

Symptom:

- Cup plugs missing from the fuel drain line at the front face of the cylinder head
- External fuel leak

Root Cause:

- Debris plugging the fuel drain line at the rear of the cylinder head causing excessive fuel drain line restriction and resulting in cup plug dislodging.
- Analysis has consistently shown urea in these deposits, indicating diesel exhaust fluid (DEF) in fuel tank.

Verification

- Inspect the fuel drain line on the cylinder head for debris. See Figure 1.
- Debris present in the fuel drain line contains urea/DEF.



Figure 1, Example View of Fuel Return Line Clogged with DEF Debris.

Resolution

- Reference Service Bulletin, Diesel Fuel Contaminated with Water, Gasoline, or Diesel Exhaust Fluid (DEF), Bulletin 5659823.
- Remove check valve fitting from the rear of the cylinder head and look for debris in the drilling. If found, remove the number 6 injector and clean out the debris.
- Run a flexible brush through the fuel drain line, the high-pressure fuel line, and the injector bore to clean out all the debris. Use contact cleaner as needed.

Document History

Date	Details
2022-10-27	Module Created

Date	Details
2023-4-13	Updated Symptom section to include external fuel leak.

Last Modified: 14-Apr-2023
