



Technical Service Bulletin

Technical Service Bulletin: TSB140017	Released Date: 16-Nov-2017
Breather Filter and Crankcase Tube Freezing Issue in Below Freezing Temperatures	

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Core Issue

Product Affected

- B6.7 CM2350 (All Versions)
- ISB6.7 CM2150 (All Versions)
- ISB6.7 CM2250 (All Versions)
- ISB6.7 CM2350 (All Versions)
- QSB4.5 CM2150 (All Versions)
- QSB4.5 CM2250 (All Versions)
- QSB4.5 CM2350 (All Versions)
- QSB6.7 CM2150 (All Versions)
- QSB6.7 CM2250 (All Versions)
- QSB6.7 CM2350 (All Versions)

Issue

- Engines with internal crankcase breather filter experience crankcase breather tube freezing issues in below freezing temperatures.

Symptom

- Lubricating oil leak and high crankcase pressure fault codes are observed.

Confirmation

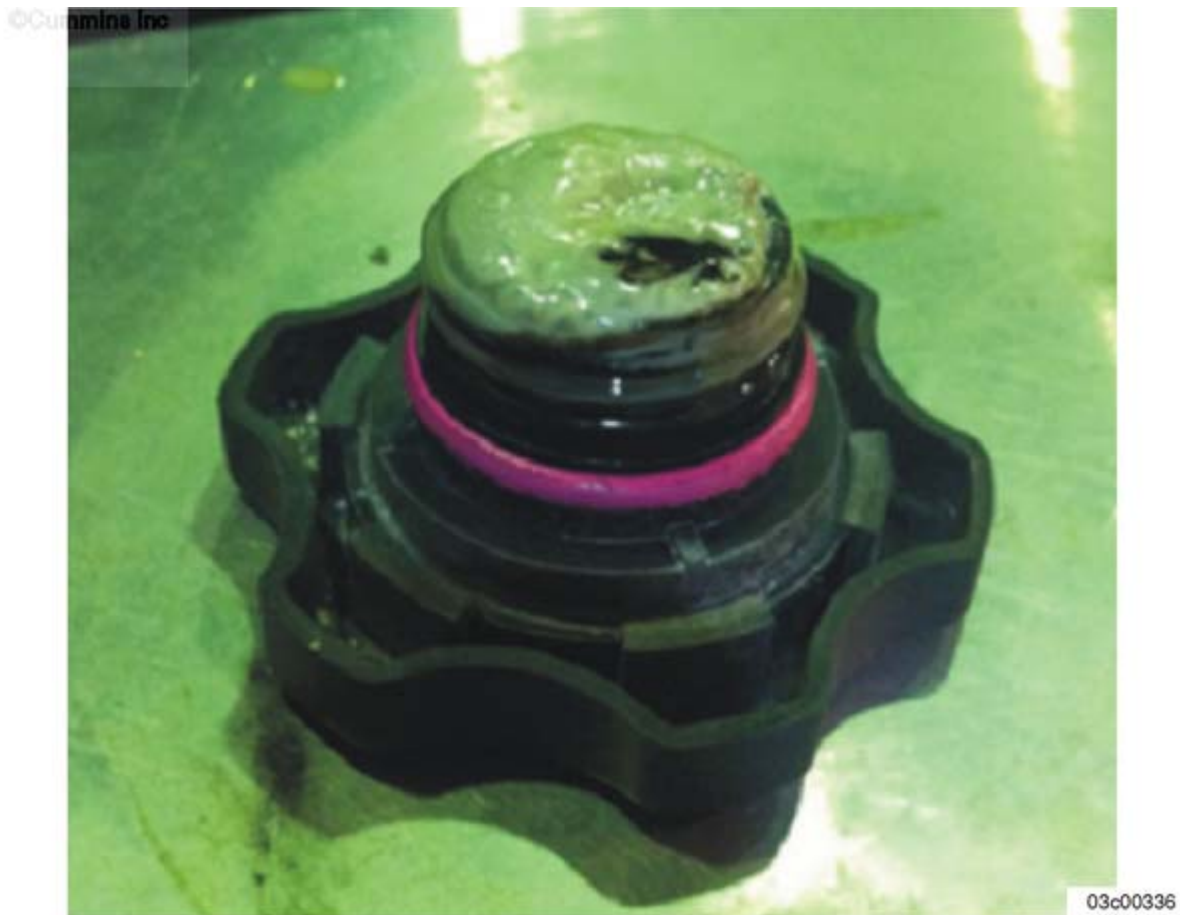
The crankcase breather filter and crankcase tube freezing could cause crankcase pressure to build, resulting in:

- Lubricating oil leaks at the turbocharger seal, valve cover gasket, and rocker housing gasket or front or rear crankshaft seals.
- Logging high crankcase pressure Fault Codes 555 and 556.

If these symptoms and fault codes are observed along with below freezing temperatures, check the breather filter and crankcase tube for freezing. Photographs are shown below for reference. Condensation might be observed on the breather element.







Resolution

If the breather filter and/or crankcase tube is found to be plugged by icing, install the cold weather upfit kit, Part Number 5314954. Reference Service Bulletin 4908173 for detailed installation instructions. This kit contains two heaters that will keep the filter and tube from freezing in below freezing temperatures. This upfit kit is **not** covered by warranty.

Cold Weather Upfit Kit, Part Number 5314954		
Quantity	Description	Part Number
1	Heater, Crankcase Breather (Flat Heater)	5314952
1	Heater, Crankcase Breather (Cylindrical Heater)	5314953
1	Harness, Wiring	4337535

Also, cut the crankcase breather tube at a 45 degree angle as shown in the illustration below. For On Highway engines, make sure that the open side of the tube either faces rearward from the vehicle's forward direction or toward the engine and for Off Highway engines, the open side **must** be facing toward the engine.

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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.

Document History

Date	Details
2014-2-10	Module Created
2014-7-1	To add a note and a picture
2017-11-13	Updated product affected.

Last Modified: 16-Nov-2017
