Technical Service Bulletin

Technical Service Bulletin: TSB140017	Released Date: 23-Apr-2026
Breather Filter and Crankcase Tube Freezing Issue in Below Freezing Temperatures	

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Core Issue

Product Affected

- B6.7 CM2450 B155B
- ISB CM2150
- ISB6.7 CM2250
- QSB6.7 CM2250
- ISB6.7 CM2150 SQ
- QSB6.7 CM2250 EC
- ISB6.7 CM2350 B101
- ISB6.7 CM2350 B103
- B6.7 CM2350 B121B
- ISB CM2150 E
- QSB6.7 CM2150 B109
- QSB4.5 CM2150 B108
- QSB6.7 CM2350 B105
- QSB4.5 CM2350 B106
- QSB4.5 CM2350 B122
- QSB6.7 CM2250 B128
- QSB6.7 CM2350 B130
- B6.7 CM2350 B135B
- QSB4.5 CM2250 B131
- ISB6.7 CM2350 B142
- QSB6.7 CM2350 B145
- QSB4.5 CM2350 B144
- B6.7 CM2350 B148B
- B6.7 CM2350 B136C
- B6.7 CM2350 B198C
- QSB4.5 CM2250 EC
- QSB6.7 CM2350 B112
- B4.5 CM2350 B146C

- B6.7 CM2350 B157C
- B4.5 CM2350 B159C
- B4.5 CM2350 B160M
- B4.5 CM2350 B161M
- B6.7 CM2450 B181B
- B6.7 CM2450 B216B
- B6.7 CM2450 B217B
- B6.7 CM2450 B207C
- B6.7 CM2450 B208C
- B6.7 CM2450 B209C
- B6.7 CM2450 B210C
- B4.5 CM2450 B230C
- B4.5 CM2450 B229C
- B6.7 CM2450 B232C
- L9 CM2450 L181C
- B6.7 CM2450 B233C

Issue

- Engines experience crankcase breather and/or breather tube freezing issues in below freezing temperatures.

Symptom

- Lubricating oil leak and high crankcase pressure fault codes are External Lubricating Oil Leak
- Fault Code 555, Fault code 556.

Confirmation

The crankcase breather filter and crankcase breather 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 (if equipped) and crankcase breather tube for freezing. Photographs are shown below for reference. Condensation might be observed on the breather element.

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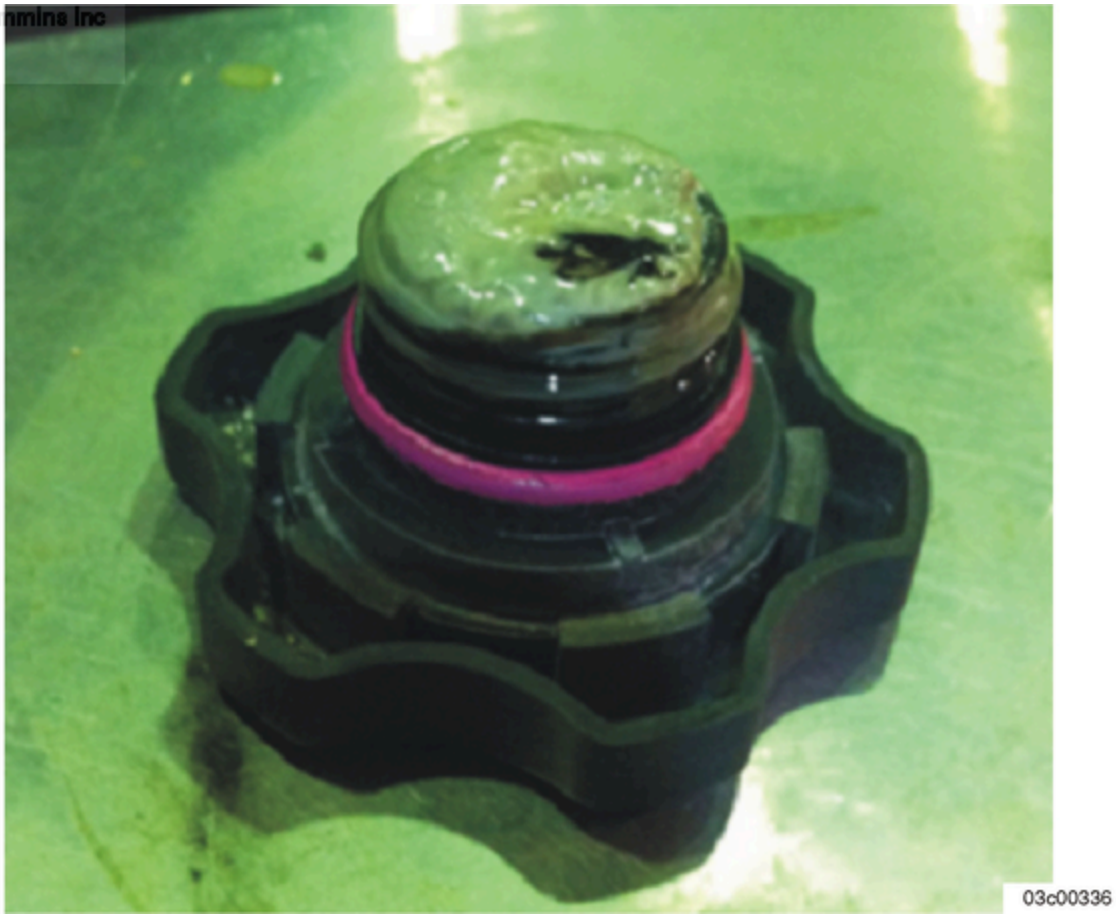


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Resolution

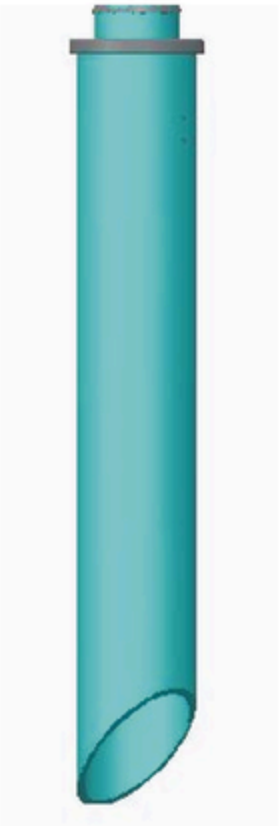
- If the crankcase breather filter and/or crankcase tube is found to be plugged by icing, install a cold weather upfit kit. These kits contain heaters that will keep the filter and/or tube from freezing in below freezing temperatures. These upfit kits are **not** covered by warranty.
- For engine service models B6.7 CM2450 B155B, install kit, Part Number 5690250. Reference Installation Instruction, Bulletin 5414731 for detailed installation instructions.
- For all other service models, install kit, Part Number 5314954. Reference Installation Instruction, Bulletin 4908173 for detailed installation instructions.

Table 1, 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

Table 2, Cold Weather Upfit Kit, Part Number 5690250		
Quantity	**Description**	**Part Number**
1	Heater, Crankcase Breather (Cylindrical Heater)	5314953
1	Harness, Wiring	4337535

Also, if the crankcase breather tube has a straight cut end, cut the tube end 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. 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

Date	Details
2014-7-1	To add a note and a picture
2017-11-13	Updated product affected.
2022-3-2	Added B6.7 CM2450 B155B to Product Affected section, added Table 2, and updated Resolution section.
2026-4-22	Added models and updated Symptom section

Last Modified: 23-Apr-2026