



Technical Service Bulletin

Technical Service Bulletin: TSB190213	Released Date: 09-Dec-2019
New Crankcase Pressure Relief Valve: Fault Codes 555 and 556	

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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

- B6.7N CM2380 B150B (2018 and 2019 engine model year **only**)
- L9N CM2380 L124B
- L9N CM2380 L130B

Issue

Symptom:

- For L9N CM2380 L124B and L9N CM2380 L130B engines **only**:
 - Engine front gear cover deforms and contacts the engine crankshaft pulley, causing a lubricating oil leak.
- All Engines:
 - Fault Codes 555 and/or 556

Fault Codes 555 and/or 556 Root Cause:

- Closed crankcase ventilation system blocked but has **not** malfunctioned.

Verification

- Verify that the OEM supplied closed crankcase ventilation hoses are properly routed. See Service Bulletin, Operation and Troubleshooting of Closed Crankcase Ventilation (CCV) Systems for Automotive Natural Gas Engines, Bulletin 5579487 ([/qs3/pubsys2/xml/en/bulletin/5579487.html](https://quickserve.cummins.com/qs3/pubsys2/xml/en/bulletin/5579487.html)).
- Use INSITE™ electronic service tool to check for active or inactive counts of Fault Codes 555 or 556 in the last 25 engine hours.
- On L9N CM2380 L124B and L9N CM2380 L130B engines **only**:
 - Inspect the front gear cover for signs of contact with the crankshaft pulley.

- On B6.7N CM2380 B150B engines **only**:
 - Verify that the engine is model year 2018 or 2019 by looking in at the engine dataplate.
 - Figure 1 below shows the layout of a B6.7N CM2380 B150B engine dataplate.
 - The year listed in the text of the “IMPORTANT ENGINE INFORMATION” field will indicate the model year of the engine.
 - This Technical Service Bulletin does **not** apply to B6.7N CM2380 B150B engines with a model year other than 2018 or 2019.



Resolution

- Verify that the engine has been operating at below freezing temperature 0°C [32°F].
- Install a crankcase pressure relief valve. See corresponding service manual. Reference Procedure 001-132 in Section 1. See Table 2 below.

Description of Change

This TSB announces a new crankcase pressure relief valve to reduce occurrences of engine damage due to a closed crankcase ventilation system that has been blocked by ice while operating in below freezing conditions.

Reason for Change

The new crankcase pressure relief valve will reduce crankcase pressure if the closed crankcase ventilation system is blocked with ice, while allowing the closed crankcase ventilation system to work normally once the ice has melted and the resulting water has passed through the closed crankcase ventilation system.

Customer Communication

This crankcase pressure relief valve is to prevent engine damage when engines are operated at temperatures low enough for ice to form in the crankcase ventilation system. The crankcase pressure relief valve should **not** be used to correct OEM crankcase ventilation hoses that are improperly routed, which could lead to liquid water blocking the closed crankcase ventilation system. See Service Bulletin, Operation and Troubleshooting of Closed Crankcase Ventilation (CCV) Systems for Automotive Natural Gas Engines, Bulletin 5579487 (</qs3/pubsys2/xml/en/bulletin/5579487.html>) for more information.

Service Parts Availability

Service parts are available. See Table 1 for part numbers.

Part Description	Service Model Name	Existing Part Number	Obsolete	Superseded	New Part Number
Crankcase Pressure Relief Valve	B6.7N CM2380 B150B	-	No	No	5529831
Crankcase Pressure Relief Valve	L9N CM2380 L124B	-	No	No	5521156

Part Compatibility

The crankcase pressure relief valve part numbers are **not** interchangeable.

Publications Affected

Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	B6.7N CM2380 B150B	5467665	Crankcase Pressure Relief Valve	Refer to Procedure 001-132 (/qs3/pubsys2/xml/en/procedures/527/527-001-132.html).	1

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	L9N CM2380 L124B	5467492	Crankcase Pressure Relief Valve	Refer to Procedure 001-132 (/qs3/pubsys2/xml/en/procedures/521/521-001-132.html).	1

Document History

Date	Details
2019-12-2	Module Created

Last Modified: 09-Dec-2019
