



Technical Service Bulletin

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Cylinder Head Rear Lubricating Oil Leakage Repair Instruction	

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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

- ISG11 CM2880 G106
- ISG11 CM2880 G108
- ISG12 CM2880 G107
- ISG12 CM2880 G109
- ISG12 G CMOH6.0 G111
- QSG12 CM2350 G113
- QSG12 CM2880 G112
- QSG12/X12 CM2350 G110
- X11 CM2670 X126B
- X12 CM2670 X121B
- X13 CM2670 X122B
- X13 CM2880 X138B

Issue

Symptom:

- Lubricating oil leak at rear of cylinder head.



GRAPHIC NOT FOUND

Figure 1, Lubricating Oil Leak at Rear of Cylinder Head.

Root Cause:

The lubricating oil leakage path can be from the:

- Flywheel housing and cylinder block gear housing joint surface

OR

- Cylinder head gasket

Verification

- Disassemble the flywheel housing. See corresponding Service Manual. Reference Procedure 016-006 in Section 16.
- Check if any lubricating oil leakage traces through broken sealing bead on the position noted in cylinder block gear housing and flywheel housing sealing surface. See Figure 2 and Figure 3 below.

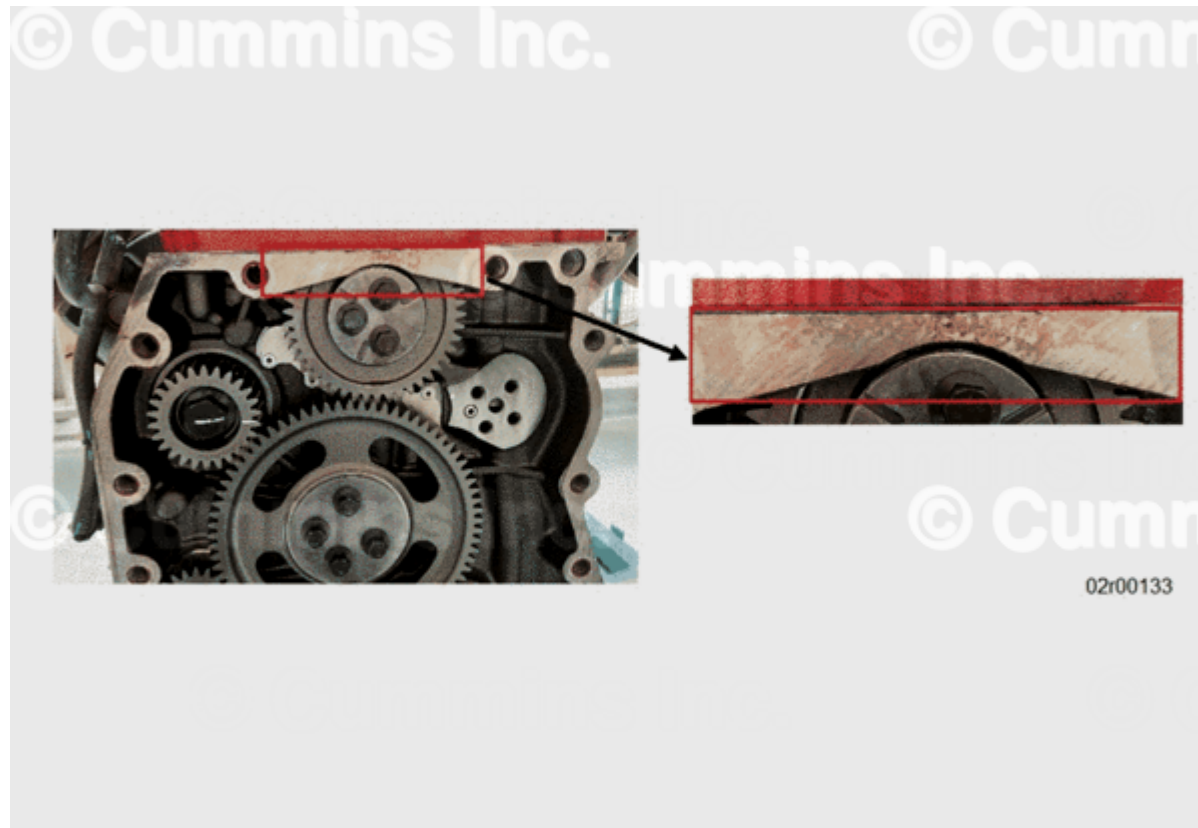


Figure 2, Lubricating Oil Leakage Trace on Cylinder Block Gear Housing Sealing Surface.



Figure 3, Lubricating Oil Leakage Trace on Flywheel Housing Sealing Surface.

- If lubricating oil leakage trace detected, go to the Resolution 1 for repair instruction.
- If no oil leakage trace detected, first go to Resolution 1 to finish the repair, second go to the Resolution 2 for repair instruction.

Resolution

Resolution 1:

- Follow the steps in the corresponding Service Manual. Reference Procedure 016-006 in Section 16 to repair oil leakage from flywheel housing and cylinder block gear housing joint surface.
- Use Contact Cleaner, Part Number 3824510, or equivalent and Abrasive Hand Pad, Part Number 3823258, to thoroughly clean the flywheel housing and gear housing mating surfaces. These surfaces **must** be clean of oil and debris, see Figure 4.

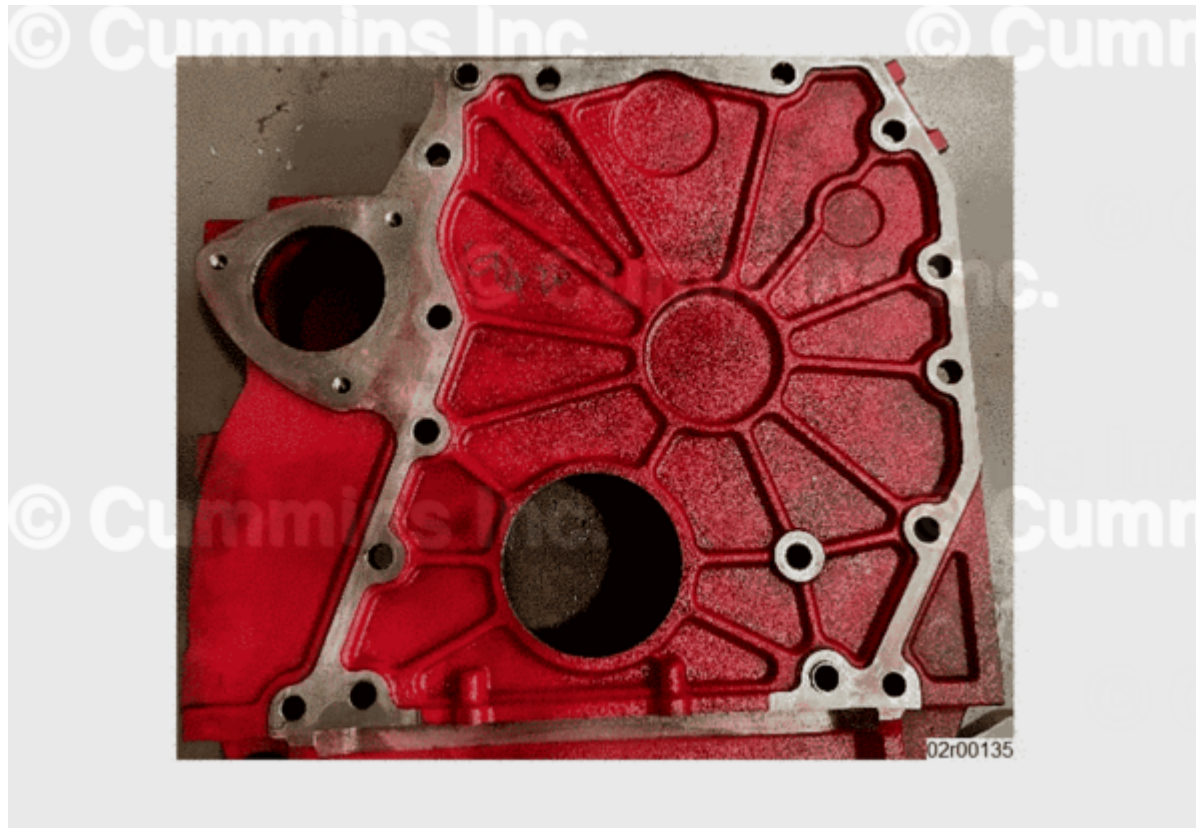


Figure 4, Flywheel Housing After Cleaning.

- Use Loctite® 5999, Part Number 5394646, instead of Loctite® 5188, Part Number 5394294, when installing the flywheel housing. Strengthen the silicon bead path at the top position of flywheel housing, see Figure 5 below.
- Install the flywheel housing within 15 minutes after applying the silicon bead. Do **not** operate the engine until at least two hours after installation.

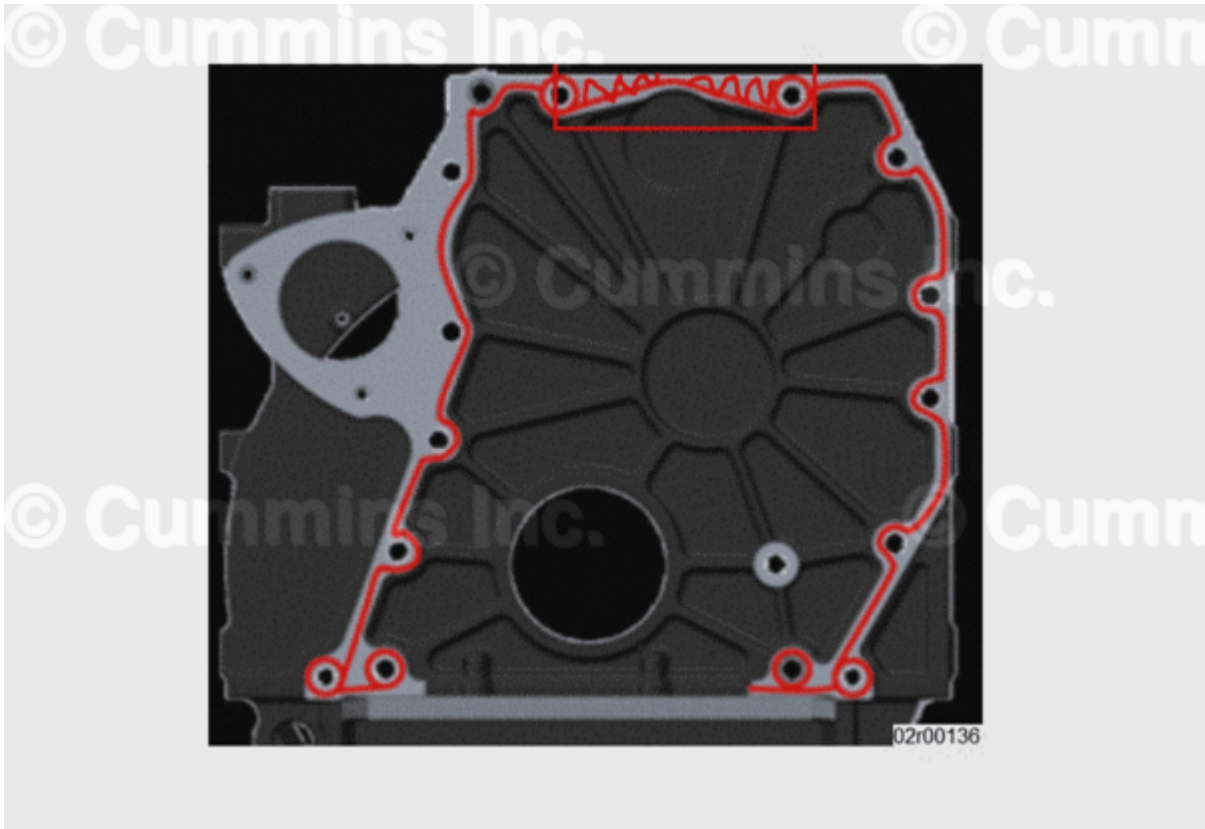


Figure 5, Position on Flywheel Housing to Apply Silicon Bead.

Resolution 2:

- Follow the steps in corresponding Service Manual, Procedure 002-004 and Procedure 002-021 in Section 2, to repair lubricating oil leakage from cylinder head gasket, use the improved cylinder head gasket, Part Number 5558113. See Table 1 below.

Service Parts Availability

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

Table 1, Service Parts				
Part Description	Existing Part Number	Obsolete	Superseded	New Part Number
Gasket, Cylinder Head	3693228	Yes	Yes	5558113

Document History

Date	Details
2021-3-1	Module Created

Last Modified: 11-Mar-2021
