



Technical Service Bulletin

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Fault Code 7327 Closed Crankcase Ventilation (CCV) Breather Troubleshooting

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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

- ISX12N CM2380 X120B

Issue Summary

Closed crankcase ventilation (CCV) breather assembly lower bearing corrosion, damage, and/or debris **not** allowing the CCV motor to achieve functional speed.

Symptom:

- Fault Code 7327: Engine Crankcase Breather Oil Separator Speed - Data Valid But Below Normal Operating Range - Moderately Severe Level

Root Cause:

- CCV housing lower bearing corrosion, damage, and/or debris

Verification

- Verify Fault Code 7327 is present.
- Standard Fault Code 7327 troubleshooting has been completed with no trouble found.
- Before final step of replacing CCV motor, visually inspect CCV housing lower bearing for corrosion, damage, and/or debris. See Figures 1 and 2 below.



Figure 1, CCV Housing Lower Bearing Face Moderate Corrosion and Heavy Debris (Top View).



Figure 2, CCV Housing Lower Bearing Face Heavy Corrosion and Light Debris (Top View).

Figure 3, CCV Housing Lower Bearing Sseparated with Bearing Components Missing (Top View).

Resolution

If visual inspection shows lower bearing corrosion and/or debris, replace crankcase breather assembly. See ISX12N CM2380 X120B Service Manual, Bulletin Number 5504152. Refer to Procedure 003-024 in Section 3. (</qs3/pubsys2/xml/en/procedures/525/525-003-024.html>)

⚠ CAUTION ⚠

Never apply more than 34.5 kPa [5 psi] to any tube with a check valve. Unregulated shop air pressure can damage the check valve internally.

If visual inspection shows lower bearing separated with missing bearing components (Figure 3), perform clean and inspect for reuse section of crankcase ventilation water drain tube procedure. See ISX12N CM2380 X120B Service Manual, Bulletin Number 5504152. Refer to Procedure 003-024 in Section 3. (</qs3/pubsys2/xml/en/procedures/525/525-003-024.html>)

Document History

Date	Details
2021-12-6	Module Created
2022-11-10	Added Figure 3 and caution.

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