



Technical Service Bulletin

Technical Service Bulletin: TSB220227	Released Date: 18-Nov-2022
New Installation Procedure for Tappet Guide Screws to Reduce Lubricating Oil Leaks	

New Installation Procedure for Tappet Guide Screws to Reduce Lubricating Oil Leaks

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

- ISC CM850
- ISC8.3 CM2250
- ISL CM2150
- ISL CM850
- ISL8.9 CM2150 L110
- ISL9 CM2150 SN
- ISL9 CM2250
- ISL9 CM2350 L101
- ISL9 CM2350 L111
- ISLE4 CM850
- L8.9 L121
- L9 CM2350 L116B
- L9 CM2350 L119B
- L9 CM2350 L120C
- L9 CM2450 L126B
- L9 CM2670 L128B
- QSC8.3 CM850
- QSC8.3 CM850(CM2850)
- QSL9 CM2250
- QSL9 CM2350 L102
- QSL9 CM2350 L118
- QSL9 CM850
- QSL9 CM850(CM2850)

- QSL9 M CM2250 L106

Issue

Symptom:

- External lubricating oil leaks can occur at the tappet guide screw. Lubricating oil will be visibly leaking from the tappet guide screw down the exterior of the cylinder block.

Root Cause:

- The service manual literature contained incorrect tappet guide screw installation instructions.

Verification

To confirm the lubricating oil leak location, see the corresponding Service Manual. Reference Procedure 014-024 in Section 14.

Resolution

Tappet guide screw installation procedure has been updated. See corresponding Service Manual. Reference Procedure 004-015 in Section 4. See Table 2 below.

Reason for Change

The thread locker amount and torque specification in Procedure 004-015 in Section 4 were found insufficient, which can result in external lubricating oil leaks.

Production Status

Implemented for production. See Table 1.

Table 1, Production Information		
ESN First	Build Date¹	Plant
9947759	24 August 2022	Rocky Mount Engine Plant
¹ Engine build date can be found on engine dataplate.		

Publications Affected

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	ISC CM850	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	ISC8.3 CM2250	4022257	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-iscl10.html)	4
Service Manual	ISL CM850	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4
Service Manual	ISL CM2150	4021569	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-iscl07.html)	4
Service Manual	ISL/NS6 2670	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	ISL8.9 CM2150 L110	4358475	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/323/323-004-015-tr.html)	4
Service Manual	ISL9 CM2150 SN	4022190	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-isle5.html)	4
Service Manual	ISL9 CM2250	4022257	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-iscl10.html)	4
Service Manual	ISL9 CM2350 L101	4310787	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/185/185-004-015-tr.html)	4

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	ISL9 CM2350 L111	4367223	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/341/341-004-015-tr.html)	4
Service Manual	ISLE4 CM850	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4
Service Manual	L8.9 L121	5411055	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/447/447-004-015.html)	4
Service Manual	L9 CM2350 L116B	5411330	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/459/459-004-015.html)	4

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	L9 CM2350 L119B	5411456	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/459/459-004-015.html)	4
Service Manual	L9 CM2350 L120C	5504199	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/560/560-004-015.html)	4
Service Manual	L9 CM2450 L126B	5613077	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/583/583-004-015.html)	4
Service Manual	QSC8.3 CM850	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	QSC8.3 CM850(CM2850)	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4
Service Manual	QSL	4022256	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-qsl4i.html)	4
Service Manual	QSL9 CM850	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4
Service Manual	QSL9 CM850(CM2850)	4021418	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr.html)	4

Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	QSL9 CM2250	4022256	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-qs14i.html)	4
Service Manual	QSL9 CM2350 L102	4332796	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/261/261-004-015-tr.html)	4
Service Manual	QSL9 CM2350 L118	4388673	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/421/421-004-015.html)	4
Service Manual	QSL9 M CM2250 L106	4022256	Tappet	Refer to Procedure 004-015 (/qs3/pubsys2/xml/en/procedures/45/45-004-015-tr-qs14i.html)	4

Document History

Date	Details

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2022-11-8	Module Created

Last Modified: 18-Nov-2022
