

Technical Service Bulletin Number
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TSB160017



Technical Service Bulletin

Subject

New Lubricating Oil Filter Bypass Valve

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

- ISM (All Versions)
- ISX12/11.9 (All Versions)
- ISX12/11.9 G (All Versions)
- ISX15 (All Versions)
- QSM11 (All Versions)
- QSX11.9 (All Versions)
- QSX15 (All Versions)

Issue

The lubricating oil filter bypass valve can leak. This is caused by improper sealing of the lubricating oil filter bypass valve plunger in the lubricating oil filter head.

The existing lubricating oil filter bypass valve plunger **must** seat on a machined surface within the lubricating oil filter head. As the result of variation in machining and casting tolerance, the lubricating oil filter bypass valve plunger may **not** fully seat and allow debris to enter the engine.

Resolution

A new single piece cartridge style lubricating oil filter bypass valve has been released to address this issue. Both the bypass valve plunger and spring have been replaced by the new single piece cartridge style lubricating oil filter bypass valve that uses an o-ring to seal the cartridge to the bore. The cartridge contains a bypass valve plunger which seals against a machined seat surface internal to the cartridge, which addresses the sealing issues of the old design. See Table 1 below for service parts information.

See Lubricating Oil Filter Bypass Valve Installation Instruction, Bulletin Number 4908439.

Table 1, Service Parts						
Part Description	Existing Part Number	Obsoleted	Superseded	New Part Description	New Part Number	Product
Bypass Valve	3820320	Yes	No	Single Piece Cartridge Style Bypass Valve	4357177	ISX12/11.9, ISX12/11.9G, ISX15, QSX11.9, QSX15 (All Versions)
				Bypass Valve	4386023	ISM and QSM11 (All Versions)

Part Identification



Figure 1, Left: New Single Piece Cartridge Style Bypass Valve. Right: Obsolete Spring and Bypass Valve.

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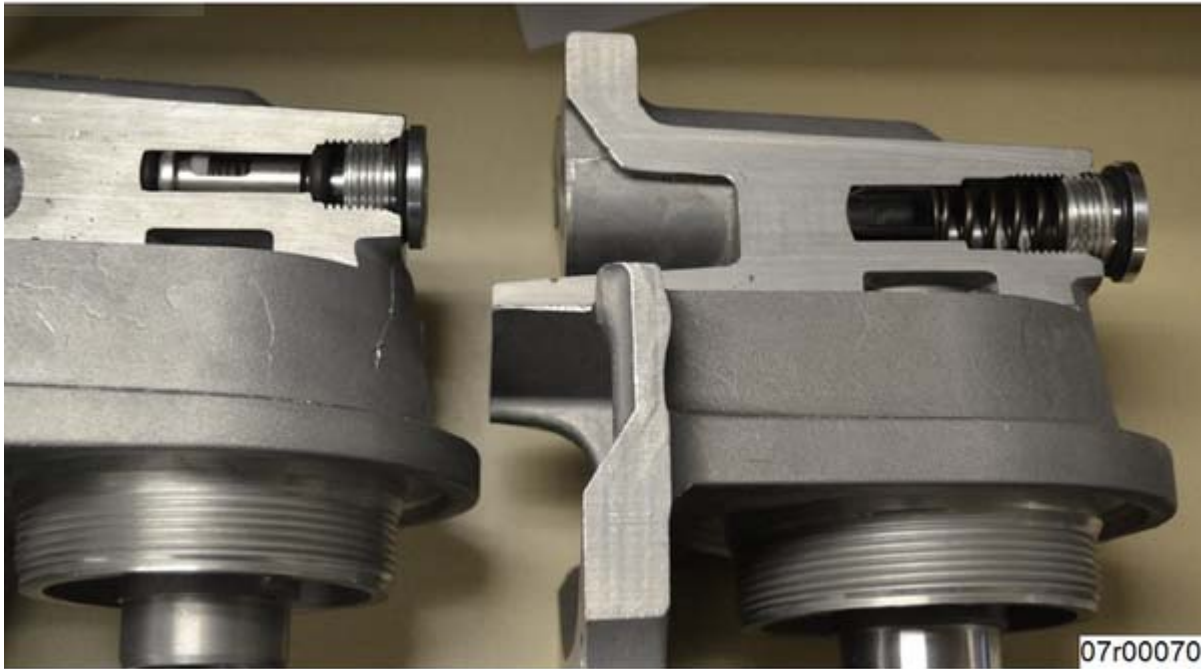


Figure 2, Left: New Single Piece Bypass Valve Installed. Right: Obsolete Spring and Bypass Valve Installed.

Document History

Date	Details
2016-2-16	Module Created

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