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## Service Information Bulletin

SUBJECT	DATE
Metal in the Fuel System – Three-Filter Fuel System	July 2013

### Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	Metal in the Fuel System – Three-Filter Fuel System	This is new information.



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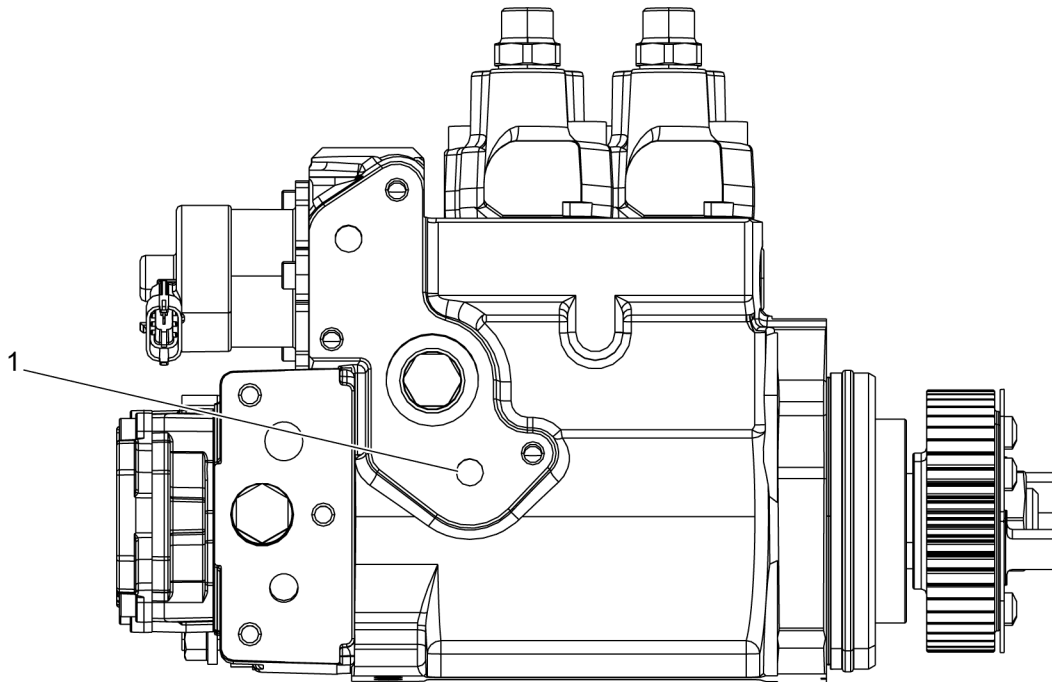
## 2 Metal in the Fuel System – Three-Filter Fuel System

Check as follows:

1. Remove the fuel filters from the fuel filter module and inspect the fuel filters and inside of the fuel filter module for metal debris.  
Refer to section "Removal of the Fuel Prefilter - Three-Filter System".  
Refer to section "Removal of the Water Separator/Coalescer - Three-Filter System".  
Refer to section "Removal of the Final Filter - Three-Filter System".  
Is any metal debris present?
  - a. Yes; Go to step 2.
  - b. No; reinstall the fuel filters.  
Refer to section "Installation of the Fuel Prefilter - Three-Filter System".  
Refer to section "Installation of the Water Separator/Coalescer - Three-Filter System".  
Refer to section "Installation of the Final Filter - Three-Filter System".
2. Using a magnet, check the fuel filters and inside of the fuel filter module for magnetic metal debris. Is any magnetic metal debris present on the fuel filters or inside of the fuel filter module?
  - a. Yes; Go to step 3.
  - b. No; replace the fuel filters and inspect the fuel tank(s) for metal debris. If debris is found in the fuel tank(s), clean the fuel tank(s). Refer to OEM procedures.  
Refer to section "Installation of the Fuel Prefilter - Three-Filter System".  
Refer to section "Installation of the Water Separator/Coalescer - Three-Filter System".  
Refer to section "Installation of the Final Filter - Three-Filter System".

**NOTICE:** Every time a high pressure flange is installed on the three-filter fuel system, a new high pressure flange gasket **MUST** be installed with the high pressure flange.

3. Remove the high pressure flange from the high pressure fuel pump. Refer to section "Removal of the High Pressure Fuel Flange - Three-Filter System". Using a magnet, insert the magnet in to the high pressure fuel pump outlet port (1) and check for magnetic metal debris. Is any magnetic metal debris present?



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- a. Yes; Go to step 4.

- b. No; reinstall the high pressure flange. Refer to section "Installation of the High Pressure Fuel Flange - Three-Filter System". Replace the fuel filters and inspect the fuel tank(s) for metal debris. If metal debris is found in the fuel tank(s), clean the fuel tank(s). Refer to OEM procedures.  
 Refer to section "Installation of the Fuel Prefilter - Three-Filter System".  
 Refer to section "Installation of the Water Separator/Coalescer - Three-Filter System".  
 Refer to section "Installation of the Final Filter - Three-Filter System".
4. Remove the Pressure Limiting Valve (PLV). Refer to section "Removal of the Pressure Limiting Valve - Three-Filter System". Using a magnet, check the inside of the fuel rail for magnetic metal debris. Is any magnetic metal debris present?
- a. Yes; replace the following components:
- High pressure fuel pump. Refer to section "Removal of the High Pressure Fuel Pump - Three-Filter System"
  - Fuel filter module. Refer to section "Removal of the Fuel Filter Module - Three-Filter System".
  - High pressure fuel injector lines. Refer to section "Removal of the High Pressure Fuel Injector Lines - Three-Filter System".
  - High pressure fuel rail feed lines. Refer to section "Removal of the High Pressure Fuel Rail Feed Lines - Three-Filter System".
  - Fuel injectors. Refer to section "Removal of the Fuel Injector - Three-Filter System".
  - High pressure flange. Refer to section "Removal of the High Pressure Fuel Flange - Three-Filter System".
  - Frame-mounted filter housing (if equipped)
  - Clean the following components:
  - Low pressure lines. Refer to section "Removal of the Low Pressure Fuel Pump Lines - Three-Filter System".
  - Low pressure flange. Refer to section "Removal of the Low Pressure Fuel Flange - Three-Filter System".
  - Doser supply line. Refer to section "Removal of the Hydrocarbon Doser Block Feed Line".
  - Return lines. Refer to section "Removal of the Needle, Amplifier, and Pressure Limiting Valve Return Lines - Three-Filter System".
  - Fuel rail. Refer to section "Removal of the Fuel Rail - Three-Filter System".
  - OEM feed and frame-mounted filter housing (if equipped).
  - Fuel tank(s). Refer to OEM procedures.
- b. No; replace the following:
- High pressure fuel pump. Refer to section "Removal of the Fuel Prefilter - Three-Filter System".
  - Fuel filter module. Refer to section "Removal of the Fuel Filter Module - Three-Filter System".
  - High pressure fuel rail feed lines. Refer to section "Removal of the High Pressure Fuel Rail Feed Lines - Three-Filter System".
  - High pressure flange. Refer to section "Removal of the High Pressure Fuel Flange - Three-Filter System".
  - Frame mounted filter (if equipped).
  - Frame-mounted filter housing (if equipped).
  - Clean the following components:
  - Fuel tank(s). Refer to OEM procedures.
  - Low pressure lines. Refer to section "Removal of the Low Pressure Fuel Pump Lines - Three-Filter System".
  - Doser supply line. Refer to section "Removal of the Hydrocarbon Doser Block Feed Line".
  - Return lines. Refer to section "Removal of the Needle, Amplifier, and Pressure Limiting Valve Return Lines - Three-Filter System".
  - OEM feed and frame-mounted filter housing (if equipped).