



Technical Service Bulletin

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Diagnostics for Failed Urea Quality Sensor Root Cause for PACCAR Chassis	

Diagnostics for Failed Urea Quality Sensor Root Cause for PACCAR Chassis

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.

Information Only - OEM Related Matter Not Covered By Cummins® - Contact Appropriate OEM Dealer or OEM Representative For Additional Information

Contents

Product Affected:

- B6.7 CM2350 B121B
- B6.7 CM2450 B155B
- L9 CM2350 L116B
- L9 CM2450 L126B
- X12 CM2350 X119B
- X12 CM2450 X137B
- X15 CM2350 X114B
- X15 CM2350 X116B
- X15 CM2450 X124B
- X15 CM2450 X134B

Issue

Diesel exhaust fluid (DEF) header assembly related fault codes, causing DEF urea quality sensor malfunctions. See fault codes listed below.

Symptoms:

- 1669 Aftertreatment Diesel Exhaust Fluid Tank Level Sensor Circuit - Voltage Above Normal or Shorted to High Source
- 1685 Aftertreatment Diesel Exhaust Fluid Quality Sensor Circuit - Voltage Below Normal or Shorted to Low Source
- 1686 Aftertreatment Diesel Exhaust Fluid Quality Sensor Circuit - Voltage Above Normal or Shorted to High Source

- 1713 Aftertreatment Diesel Exhaust Fluid Tank Heater - Data Valid But Above Normal Operating Range - Moderately Severe Level
- 1715 Aftertreatment Diesel Exhaust Fluid Quality - Root Cause Not Known
- 3868 Aftertreatment Diesel Exhaust Fluid Quality - Abnormal Update Rate
- 4233 Aftertreatment 1 Diesel Exhaust Fluid Temperature 2 Sensor Circuit - Voltage Above Normal or Shorted to High Source
- 4234 Aftertreatment 1 Diesel Exhaust Fluid Temperature 2 Sensor Circuit - Voltage Below Normal or Shorted to Low Source
- 4572 Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature - Abnormal Update Rate
- 4677 Aftertreatment 1 Diesel Exhaust Fluid Tank Level - Abnormal Update Rate
- 4739 Aftertreatment 1 Diesel Exhaust Fluid Tank Level Sensor - Root Cause Not Known

Resolution

- Additional diagnostic procedure to the related DEF urea quality sensor fault codes.
- Reference Service Instruction section below.

Service Instruction

Reference PACCAR TIB 43-061: Additional Diagnostics for Failed Urea Quality Sensor (UQS).

Document History

Date	Details
2020-9-21	Module Created
2021-9-9	Updated Product Affected section.

Last Modified: 10-Sep-2021
