Technical Service Bulletin

Technical Service Bulletin: TSB220250	**Released Date**: 08-Feb-2023
Fault Code 1881, 1883, 3133, 3134, 3135 5715 5716, or 6786 with with Fault Code 1921, 1922, 1981, or 2639	

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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

- B6.7 CM2350 B121B
- B6.7 CM2450 B155B
- L9 CM2350 L116B
- L9 CM2350 L123B
- L9 CM2450 L126B
- X12 CM2350 X119B
- X12 CM2450 X137B
- X15 CM2350 X114B
- X15 CM2350 X116B
- X15 CM2450 X124B
- X15 CM2450 X134B

Issue Summary

Symptom:

- Fault Code 1881, 1883, 3133, 3134, 3135, 5715, 5716, and/or 6786 active or has more than one inactive count within the last 25 engine operating hours along with

Fault Code 1921, 1922, 1981, and/or 2639 active or has more than one inactive count within the last 25 engine operating hours.

Root Cause:

- Aftertreatment diesel particulate filter (DPF) differential pressure sensor is susceptible to moisture intrusion that can cause false occurrences of 1921, 1922, 1981, and/or 2639, which will lead to unnecessary aftertreatment DPF replacement.

Verification

- Use the recommended Cummins® electronic service tool or equivalent to read the fault codes.
- Fault Codes 1881, 1883, 3133, 3134, 3135, 5715, 5716, and/or 6786 are active or has more than one inactive count within the last 25 engine operating hours.
- Fault Codes 1921, 1922, 1981, and/or 2639 active or has more than one inactive count within the last 25 engine operating hours.
- If the fault code does **not** return, no further troubleshooting is required. If Fault Code 1921, 1922, 1981, and/or 2639 return, complete the remainder of the troubleshooting steps.

Resolution

- If an ECM calibration code update for this fault code is available, the ECM calibration code revision **must** be that revision or higher.
- If fault codes are **not** active or do **not** have more than one inactive count within the last 25 engine operating hours, continue with published troubleshooting.
- If Fault Code 1881, 1883, 3133, 3134, 3135, 5715, 5716, and/or 6786 are active or has more than one inactive count within the last 25 engine operating hours along with Fault Code 1921, 1922, 1981, and/or 2639 active or has more than one inactive count within the last 25 engine operating hours, perform the following steps:
    - Replace aftertreatment DPF differential pressure sensor. See corresponding Service Manual. Reference Procedure 019-443 in Section 19.
    - Inspect the aftertreatment DPF differential pressure sensor tubes for signs of damage, plugging, kinks, leakage, or loose connections. See corresponding Service Manual. Reference Procedure 011-047 in Section 11.
    - Reset the stored soot load in the engine control module (ECM). This can be performed by using the recommended Cummins® electronic service tool or equivalent to perform the Aftertreatment Maintenance Reset procedure under the Advanced ECM Data menu.
    - Use the recommended Cummins® electronic service tool or equivalent to perform an aftertreatment diesel particulate filter stationary regeneration.
    - If Fault Codes 1921, 1922, 1981, and/or 2639 do **not** return, release the unit.

- If Fault Codes 1921, 1922, 1981, and/or 2639 return, proceed with the published troubleshooting.

Document History

Date	Details
2022-12-5	Module Created
2023-1-26	Updated Product Affected and associated fault codes.
2023-2-7	Corrected Fault Code 6787 to 6786.

Last Modified: 08-Feb-2023