ISB6.7 CM2250

Fault Code: 3251 | SPN: 4765 | FMI: 16

Aftertreatment 1 Diesel Oxidation Catalyst Intake Temperature - Data Valid But Above Normal Operating Range - Moderately Severe Level

1 Check for primary fault codes

2 Leaks in the intake air system

3 Charge air cooler system leak

4 ECM calibration revision history check

1 Check for primary fault codes

Solution: S00001839

Verification

Conditions

- Turn keyswitch ON.
- Connect the recommended Cummins® electronic service tool or equivalent.

Action

- Use the recommended Cummins® electronic service tool or equivalent to read the fault codes.

Specification

Before troubleshooting this fault code, troubleshoot any fault code that is active or has more than one inactive count within the last 25 engine operating hours from the following list:

- Aftertreatment fuel: 1925, 1963
- Aftertreatment DOC: 3313, 3314, 3315

Linked Solutions

- None

Repair

- Perform a search on the appropriate fault codes.

Validation

- None

2 Leaks in the intake air system

Solution: S00008386

Verification

Conditions

- Turn keyswitch OFF.

Action

- Visually inspect the air intake system for leaks.
- Visually inspect the intake plumbing for possible air leaks.

Specification

- If any of the components have leaks observed, then a leaking air handling component has been detected.

Linked Solutions

- None

Repair

- Repair or replace the leaking components.

Refer to OEM Service Manual

Validation

- Connect all components
- Connect the recommended Cummins® electronic service tool or equivalent.
- Disable the fault code.
- Operate the engine within the "Conditions for Clearing the Fault Code" found in the Overview section of the troubleshooting procedure.
- Verify that the fault code is no longer active.
- Check ECM Calibration Revision History
- Use the recommended Cummins® electronic service tool or equivalent to find the current ECM code and revision number in the ECM.
- Compare the ECM code and revision number in the ECM to the calibration revisions listed in the ECM Calibration Revision History Database for applicable changes related to this fault code.
- Refer to ECM Calibration Revision History Database.

3 Charge air cooler system leak

Solution: S00008815

Verification

Conditions

- Turn keyswitch OFF.

Action

- Visually inspect the charge air cooler hoses for possible air leaks.
- Pressure test the charge air cooler to check for leaks. Refer to Procedure 010-027

Specification

- If a leak is found, then proceed to the Repair section.

Linked Solutions

- None

Repair

Repair or replace **only** the components that were found to be out of specification.

- Repair or replace the charge air cooler. Refer to Procedure 010-027
- Repair or replace the charge air cooler hoses.

Refer to OEM Service Manual

Validation

- Connect all components
- Connect the recommended Cummins® electronic service tool or equivalent.
- Disable the fault code.
- Operate the engine within the "Conditions for Clearing the Fault Code" found in the Overview section of the troubleshooting procedure.
- Verify that the fault code is no longer active.
- Check ECM Calibration Revision History
- Use the recommended Cummins® electronic service tool or equivalent to find the current ECM code and revision number in the ECM.
- Compare the ECM code and revision number in the ECM to the calibration revisions listed in the ECM Calibration Revision History Database for applicable changes related to this fault code.
- Refer to ECM Calibration Revision History Database.

4 ECM calibration revision history check

Solution: S00000443

Verification

Conditions

- Connect all components.
- Turn keyswitch ON.
- Connect the recommended Cummins® electronic service tool or equivalent.

Action

- Use the recommended Cummins® electronic service tool or equivalent to read the fault codes.
- Use the recommended Cummins® electronic service tool or equivalent to find the current ECM code and revision number in the ECM.
- Compare the ECM code and revision number in the ECM to the calibration revision listed in the ECM calibration revision history for applicable changes.

Specification

- If a calibration update for this fault code is available, the ECM calibration revision **must** be that revision or higher.

Linked Solutions

- None

Repair

- Prior to downloading the ECM calibration, check to see that all job images and all other troubleshooting has been documented as downloading an ECM calibration will remove the fault codes on the ECM.
- Download the updated ECM calibration code. Refer to Procedure 019-032

Validation

- Connect all components
- Connect the recommended Cummins® electronic service tool or equivalent.
- Disable the fault code.
- Operate the engine within the "Conditions for Clearing the Fault Code" found in the Overview section of the troubleshooting procedure.
- Verify that the fault code is no longer active.
- Check ECM Calibration Revision History
- Use the recommended Cummins® electronic service tool or equivalent to find the current ECM code and revision number in the ECM.
- Compare the ECM code and revision number in the ECM to the calibration revisions listed in the ECM Calibration Revision History Database for applicable changes related to this fault code.
- Refer to ECM Calibration Revision History Database.

If all steps have been completed and no root cause has been identified, then follow the technical escalation process.