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Service Information Bulletin

SUBJECT	DATE
SPN 3250/FMI 31 - GHG14	January 2015

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 3250/FMI 31 - GHG14	Updated diagnostics to remove wiggle test and to add circuit diagram for wire testing.

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2 SPN 3250/FMI 31 - GHG14

Abnormal Diesel Oxidation Catalyst Temperature Rise

Table 1.

SPN 3250/FMI 31	
Description	Abnormal Diesel Oxidation Catalyst (DOC) Temperature Rise
Monitored Parameter	DOC Temperature
Typical Enabling Conditions	Always on
Monitor Sequence	None
Execution Frequency	Continuous when enabling conditions met
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	25% Derate
Verification	Parked Regen

NOTE: This fault indicates the Aftertreatment Control Module (ACM) has detected a sudden temperature shift on the Diesel Particulate Filter (DPF) outlet temperature sensor. The most likely cause is an intermittent wiring concern (poor terminal fit, corrosion, chaffing, etc.).

WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

1. Connect DiagnosticLink ®.
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple fault codes. Are other faults codes active?
   a. Yes; troubleshoot those first.
   b. No; Go to step 4.
4. Remove the DOC outlet temperature sensor. Refer to section "Removal of the GHG14 Diesel Oxidation Catalyst Outlet Temperature Sensor".
5. Allow the DOC outlet temperature sensor to cold soak for several minutes until the sensor has reached ambient temperature.
6. Perform a DOC Outlet Temperature Sensor Test. Measure the resistance between pins 1 and 2 of the DOC outlet temperature sensor connector. Does the DOC outlet temperature sensor match the resistance specification in the chart below?

Table 2.

Temp ºC (ºF)	Min Resistance (Ω)	Max Resistance (Ω)	Min Voltage	Max Voltage
0 (32)	197.67	207.62	0.491	0.520
10 (50)	205.33	215.24	0.506	0.536
25 (77)	216.77	226.64	0.530	0.559
50 (122)	235.72	245.52	0.567	0.597
100 (212)	273.19	282.83	0.638	0.667
150 (302)	310.07	319.56	0.704	0.733
200 (392)	346.36	355.70	0.765	0.794
300 (572)	416.47	429.09	0.874	0.909
400 (752)	484.17	489.84	0.970	1.007

a. No; replace the DOC outlet temperature sensor.
b. Yes; Go to step 7.

7. Using appropriate test probes from J-48476 connector test kit and J-47410 terminal repair kit , drag test and inspect all harness connector terminals between the DOC outlet temperature sensor and the ACM, including the chassis extension harness and Aftertreatment Device (ATD) sensor box. Repair as necessary to ensure a snug fit between the test probes and the female terminals.