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Service Information Bulletin

SUBJECT	DATE
SPN 3363/FMI 1 - ACM - EPA10 - GHG14	February 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	EPA10/ GHG14 DD Platform	SPN 3363/FMI 1 - EPA10 - GHG14	The diagnostics have been updated to include replacing the coolant valve on the 6-gallon DEF tank to use the ambient air temperature as displayed in the ACM.



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2 SPN 3363/FMI 1 - EPA10 - GHG14

This diagnostic is typically Diesel Exhaust Fluid (DEF) Tank Temperature - Low.

This code sets when the DEF tank temperature does not increase 0.5°C (0.9°F) within 300 seconds after the DEF tank coolant valve has been commanded on.

Table 1.

SPN 3363/FMI 1	
Description	DEF Tank Temperature - Low
Monitored Parameter	DEF Tank Temperature
Typical Enabling Conditions	Coolant Valve Commanded Open, Coolant Temperature Greater Than 70°C (158°F), Ambient Temperature Less Than -1°C (30°F) as measured by the ACM
Monitor Sequence	None
Execution Frequency	Continuous when enabling conditions met
Typical Duration	30 Minutes
Dash Lamps	MIL
Engine Reaction	
Verification	Parked Regeneration

Possible causes:

- Coolant valve stuck closed
- Lack of coolant flow to the coolant valve
- Faulty DEF tank temperature sensor
 1. Are there any cooling system issues or complaints?
 - a. Yes; service cooling system issues or complaints.
 - b. No; Go to step 2.
 2. Inspect the DEF tank coolant valve supply lines for a restriction or closed shut off valves plumbed into the cooling system. Are there any restrictions present?
 - a. Yes; repair as necessary. Verify repair.
 - b. No; Go to step 3.
 3. Connect DiagnosticLink™. Go to step 4.
 4. Turn the ignition ON (key ON, engine OFF). Go to step 5.
 5. Command the DEF coolant valve on. (Service Routines > Activate Outputs > Coolant Valve Open: Start Coolant Valve Open Status). Does SPN 3363/FMI 3, 4 or 5 become active?
 - a. Yes; diagnose and repair the other SPN 3363 codes. Verify repair.
 - b. No; Go to step 6.
 6. Remove the DEF tank fill cap, then use an external thermometer or infrared heat gun to measure the temperature of the DEF as close to the DEF tank temperature sensor as possible. Go to step 7.
 7. Compare the externally measured DEF temperature reading to the DEF tank temperature reading in DDDL/DDRS. Is the AS022 DEF tank temperature within 1 degree Celsius (2 degrees Fahrenheit) of the externally measured temperature?
 - a. Yes; Go to step 8.
 - b. No; replace the DEF tank header assembly due to a faulty DEF tank temperature sensor. Refer to section "Removal of the EPA10 13 and 23 Gallon Diesel Exhaust Fluid Tank Header Unit" or OEM literature for the 6-gallon DEF tank header unit. Verify repair.
 8. Is the vehicle equipped with a 6-gallon DEF tank?
 - a. No; replace the DEF tank header assembly due to the coolant valve being stuck closed. Refer to section "Removal of the EPA10 13 and 23 Gallon Diesel Exhaust Fluid Tank Header Unit".
 - b. Yes; replace the DEF coolant valve. Refer to OEM literature for the 6-gallon DEF tank header unit. Verify repair.