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Service Information Bulletin

SUBJECT	DATE
SPN 3364/FMI 18 – GHG14	January 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	GHG14 DD Platform	SPN 3364/FMI 18 – GHG14	New information.

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2 SPN 3364/FMI 18 – GHG14

This diagnostic is typically Improper Diesel Exhaust Fluid (DEF) Quality Warning.

NOTE: Retain a log file if Detroit™ Customer Assistance is required.

1. Connect DDDL/DDRS 7.08 SP2 or newer.
   a. If there are fault codes present other than SPN 3364/FMI 2, SPN 5246/FMI (any) or SPN 4364/FMI 1 or 18, repair them first before continuing this procedure.
   b. If there are no fault codes, Go to step 2.
2. Using a refractometer from the DEF Test Kit W060589001900, measure the DEF percentage. Is DEF percentage between 28 and 36%?
   a. Yes; Go to step 3.
   b. No; clean/flush the DEF tank, then Go to step 7. Refer to section "Flushing of the Diesel Exhaust Fluid System".
3. Turn ignition ON (key ON, engine OFF).
4. Visually check all DEF lines for physical damage (kinks, cracks, leaks and disconnects).
   a. If damage is found, repair as necessary. Go to step 7.
   b. If no damage is found, Go to step 5.
5. Unbolt DEF dosing unit from exhaust only. Do not disconnect DEF hoses or electrical connector. Refer to section "Removal of the GHG14 Dosing System Doser".
6. Perform a DEF Quantity Test service routine and record the amount of DEF fluid level dispensed. Is the dispensed DEF fluid level between108mL (3.65 oz) and 132mL (4.46 oz)?
   a. Yes; Go to step 7.
   b. No; replace dosing unit. To verify repairs, Go to step 7.
7. Monitor (chart) the following parameters:
   - ASL102 Engine Speed
   - AS018 SCR Inlet Temperature
   - AS019 SCR Outlet Temperature
   - AS035 SCR Inlet NOx sensor
   - AS036 SCR Outlet NOx sensor
   - AS101 NOx Conversion Efficiency

WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

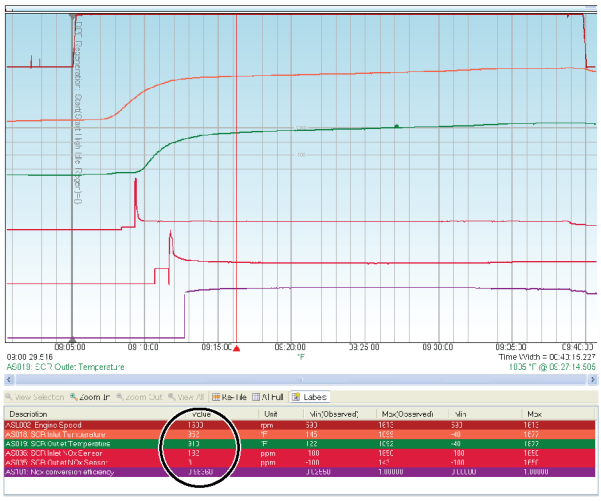
WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.

WARNING: HOT EXHAUST

During parked regeneration the exhaust gases will be extremely HOT and could cause a fire if directed at combustible materials. The vehicle must be parked outside.

8. Start engine and perform a parked regeneration. Does the NOx conversion efficiency rise and stay above 85% (0.85) during the regeneration? Check after the regeneration to ensure SPN 3364/FMI 2 and all SPN 5246/FMI (any) faults go inactive. Refer to section "Performing a Parked Regeneration Using DDDL".



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a. Yes; clear faults and release vehicle.
b. No; send the log files to the Detroit™ Customer Support Center at (800) 445-1980 for further analysis and instruction.

