

1 2 40-14



Service Information Bulletin

SUBJECT	DATE
SPN 4374/FMI 0 (ACM2.1)(GHG14)	February 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 4374/FMI 0 - GHG14	Moved DEF tank header inspection to step 14.



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2 SPN 4374/FMI 0 – GHG14

This diagnostic is typically Under Pressurized Diesel Exhaust Fluid (DEF) System.

This code sets when the DEF pump speed is higher than normal for a given DEF pressure.

Table 1.

SPN 4374/FMI 0	
Description	Under Pressurized DEF System
Monitored Parameter	DEF Pump Speed vs. DEF Pressure
Monitor Sequence	None
Execution Frequency	Continuous when enabling conditions met
Typical Duration	Continuous until resolved
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%
Verification	SCR ADS Self Check

Possible causes:

- Restriction in DEF flow
- Failed DEF pump
- Failed Dosing unit

Check as follows:

NOTE: Retain a log file if Detroit™ customer assistance is required.

NOTE: SPN 520327/FMI 3 may also set as a result of this fault.

1. Connect DiagnosticLink™ or newer.
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple codes. Are codes SPN 4334/FMI 3, 4, SPN 4375/FMI 3, 4, or SPN 3361/FMI 3, 4, 5 also present?
 - a. Yes; diagnose and repair the other fault codes first. Verify repair.
 - b. No; Go to step 4.
4. Turn the ignition OFF.
5. Using DEF test strip A0005850202, check for diesel fuel or oil contamination of the DEF fluid. Does the test strip indicate contamination?
 - a. Yes; refer to **13 TS-17** (<http://ddcsn-ddc.freightliner.com/cps/rde/xbcrr/ddcsn/13TS17.pdf>), and refer to appropriate Original Equipment Manufacturer (OEM) manual for the DEF tank cleaning/flushing procedure. Verify repair
 - b. No; Go to step 6.
6. Remove DEF pressure and suction lines from DEF pump and doser unit. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Lines".



WARNING: EYE INJURY

To avoid injury from flying debris when using compressed air, wear adequate eye protection (face shield or safety goggles) and do not exceed 276 kPa (40 psi) air pressure.

7. Inspect lines for restrictions, damage or kinks by flushing the lines with 40 psi of regulated shop air. Are there any restrictions, kinks or damage present?
 - a. Yes; replace the line with the restriction. Verify repair.

- b. No; Go to step 8.
8. Using the DEF/Doser Kit (RS SUPPLY KIT - available through eParts catalog), replace the DEF pump main filter. Refer to section "Installation of the GHG14 Diesel Exhaust Fluid Pump Module Filter" . Go to step 9.
9. Replace the DEF pump inlet screen. Refer to section "Installation of the GHG14 Diesel Exhaust Fluid Dosing Unit Inlet Screen" . Go to step 10.
10. Replace DEF Pressure Relief Valve (PRV). Refer to section "Removal of the Diesel Exhaust Fluid Pump Pressure Relief Valve" . Go to step 11.
11. Replace DEF doser unit inlet screen. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Dosing Unit Inlet Screen". Go to step 12.
12. Perform Selective Catalytic Reduction Airless Dosing System (SCR ADS) Self-Check Routine. Did the SCR ADS test pass?
 - a. Yes; clear the codes and release the vehicle.
 - b. No; replace the DEF pump. Refer to section "Removal of the GHG14 Diesel Exhaust Fluid Pump Module". Go to step 13.
13. Perform SCR ADS Self-Check Routine. Did the SCR ADS test pass?
 - a. Yes; clear the codes and release the vehicle.
 - b. No; Go to step 14.
14. Remove DEF tank header and inspect DEF supply filter. Refer to section "Removal of the GHG14 13 and 23 Gallon Diesel Exhaust Fluid Tank Header Unit". Is there debris or a restriction found?
 - a. Yes; replace DEF tank header and refer to appropriate Original Equipment Manufacturer (OEM) manual for DEF tank cleaning/flushing procedure. Verify repair
 - b. No; Go to step 15.
15. Perform SCR ADS Self-Check Routine. Did the SCR ADS test pass?
 - a. Yes; clear the codes and release the vehicle.
 - b. No; replace the DEF Doser Unit. Refer to section "Removal of the GHG14 Dosing System Doser". Perform SCR ADS Self-Check Routine to verify repairs.