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Coding Information

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Title: SPN 3055 FMI 0 FRP exceeded maximum Troubleshooting**Applies To: EPA 2010 MaxxForce 11 / 13/ 15 and N13****CHANGE LOG**

If this iKNow Article is being revised, please type in the text box what has changed in the article. The change log is meant for Dealers to be able to see what has updated/changed in the article.

4/4/14 Added specific SRT codes for each model with this engine.
5/21/14 Improved diagnostics for FPCV step 4.
6/1/14 Adding the 15L MaxxForce information.

SPN 3055 FMI 0 - FRP Exceeded Maximum

Condition / Description	Setting Criteria	Enable Conditions / Values	Time Required
Fuel Rail Pressure (FRP) above maximum pressure.	FRP greater than 34,000 psi (235,000 kpa)	Key ON Closed loop fuel rail pressure control	0.25 seconds

Fault Overview

- Fault code sets when signal from the Fuel Rail Pressure (FRP) sensor indicates FRP exceeds 34,000 psi (235,000 kPa).

Malfunction Indicator Lamp (MIL) Reaction

- MIL will illuminate when this fault is detected during two consecutive drive cycles.

Associated Faults

- SPN 94 FMI 0 (FDP); SPN 157 FMI 3, 4, 20, and 21 (FRP); and SPN 633 FMI 3, 4, and 5 (FPCV)

Drive Cycle to Determine Fault Status

- Drive Cycle 2 in 2013 HD-OBd Diagnostic Reference Manual.

Possible Causes

- Restricted high-pressure pump fuel return line
- Fuel Pressure Control Valve (FPCV) or circuit fault

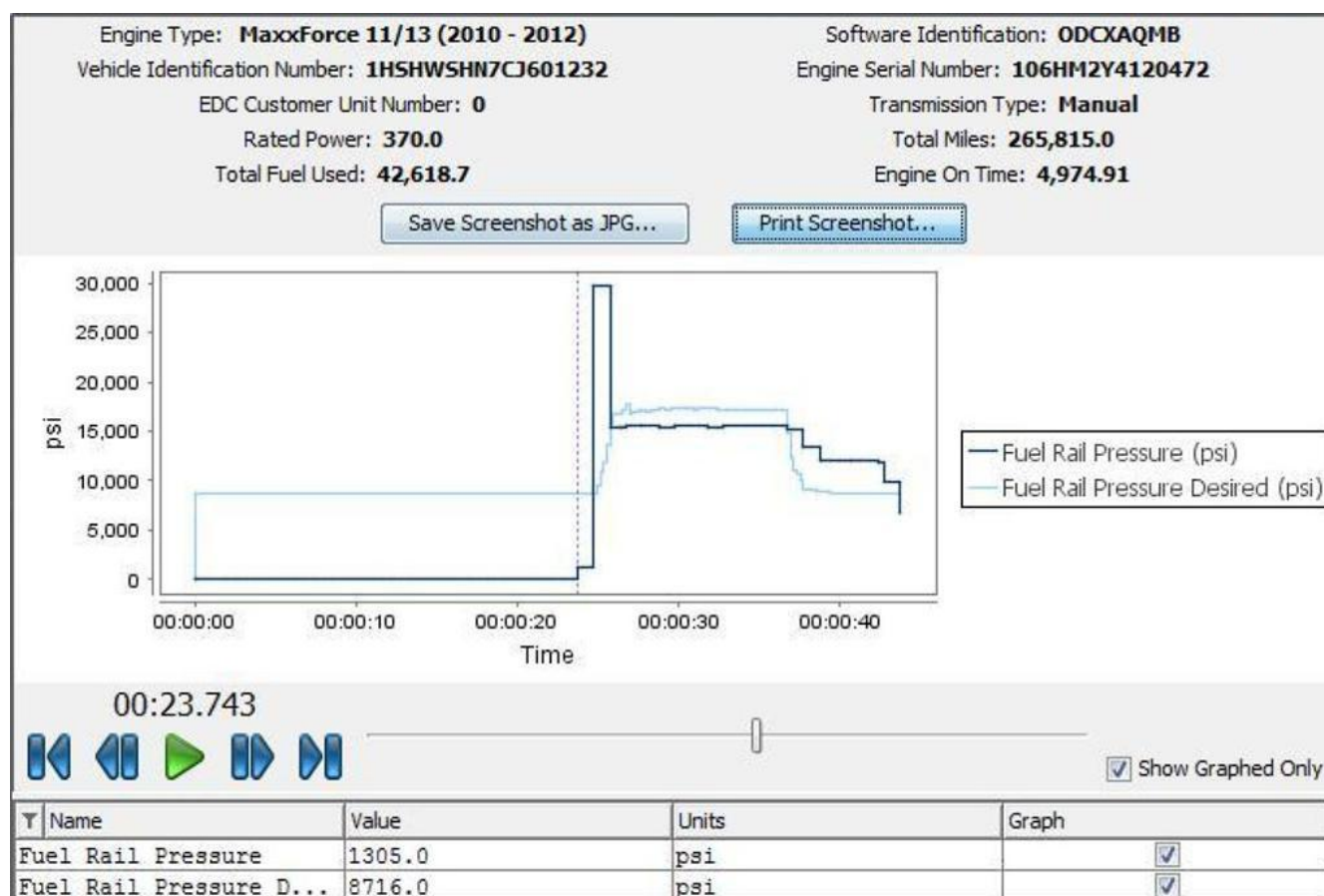
Engine Manual links

- [2010 11/13L non SCR](#)
- [2010 N13 SCR](#)
- [MaxxForce® 15](#)

Step	Action	Decision
1	Check fuel level. Read fuel level using the vehicle instrument panel gauge and perform a visual inspection of fluid level in the fuel tank. Is the fuel level sufficient and the tank is not leaking?	Yes: Go to step 2.
		No: Add fuel or repair leaks, and prime engine.
Step	Action	Decision
2	Using Electronic Service Tool (EST) with ServiceMaxx™ software, check Diagnostic Trouble Code (DTC) list for SPN 157 FMI 3, 4, 20, and 21 (FRP); SPN 94 FMI 0 (FDP); and SPN 633 FMI 3, 4, and 5 (FPCV). Is the EST DTC list free of SPN 157 FMI 3, 4, 20, and 21; SPN 94 FMI 0; and SPN 633 FMI 3, 4, and 5?	Yes: Go to step 3.
		No: Repair SPN 157 FMI 3, 4, 20, and 21; SPN 94 FMI 0; and SPN 633 FMI 3, 4, and 5. See health report for link to diagnostics.

Step	Action	Decision
3	Check for restricted fuel return line. Perform HP Pump Fuel Return Pressure Test (page 174). Is pressure < 13 psi?	Yes: Go to step 4.
		No: Repair restriction in fuel return line between high-pressure fuel pump and fuel tank.
Step	Action	Decision
4	Check for a failed FPCV. Using EST, record a performance session snap shot of the vehicle idling for one minute. Open recorded signal and graph FRP and FRP desired data. Check graph for FRP over shoots. Does the recorder plot look like Figure A? (Viewing ServiceMaxx™ SnapShots)	Yes: Replace Fuel Pressure Control Valve.
		No: Verify each step was completed correctly. Save snap shot and notify supervisor.

Figure A. FRP, AND FRPD.



NOTE: After performing all diagnostic steps, if SPN 3055 FMI 0 remains, verify each step was completed correctly and the proper decision was made. Notify supervisor for further action.

Qty	Part Description	Part Number	Step	SRT Description	SRT link	Model	SRT (hr)	Group	Noun
1	Fuel Pressure Control Valve (FPCV)	7092109C91	4	Electronic Engine Control Sensors / Valves (MaxxForce 11/13), Replace	A12-5034	All Models	1.5	12-Engine	454

Diagnostics Description	SRT Description	SRT Link	Model	SRT (hr)
High pressure fuel return pressure test	Electronic Engine Performance, Diagnose	N12-2192U	WorkStar	0.3

		Q12-2192U R12-2192U	TranStar ProStar	
Connection and Data Recording	Electronic Engine Performance, Diagnose	N12-2174U Q12-2174U R12-2174U	WorkStar TranStar ProStar	0.3

Note: Use 13L standard repair times for the 15L as t-times. The new standard repair times will be published 7/7/14.

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