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Coding Information

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Title: ISX or N13 Setting 3556-18 (FC3167), 5298-18 (FC1691), or 3482-2 (FC1925) Caused by Missing AFI Poppet

Applies To: EPA 2013 Vehicles with ISX or N13 Engines and SCR Aftertreatment

Change Log

Please refer to the change log text box below for recent changes to this article:

Date	Details
06/05/2014	Article Created

Subject

ISX15 CM2350 X101 and Navistar® 13L Engines with SCR setting fault codes 3556-18 (FC3167), 5298-18 (FC1691), or 3482-2 (FC1925) may be caused by a missing poppet in the EcoFit™ aftertreatment fuel injector

Fault Codes

SPN	FMI	Cummins FC	Description
3556	18	3167	Aftertreatment Doser - Data Valid But Below Normal Operating Range - Moderately Severe Level
5298	18	1691	Aftertreatment 1 Diesel Oxidation Catalyst Conversion Efficiency - Data Valid But Below Normal Operating Range - Moderately Severe Level
3482	2	1925	Aftertreatment Fuel Shutoff Valve - Data Erratic, Intermittent, or Incorrect

Description

This document informs the field of a missing poppet in the EcoFit™ aftertreatment fuel injector causing fault codes 3556-18 (FC3167), 5298-18 (FC1691), or 3482-2 (FC1925) to set.

The new EcoFit™ aftertreatment fuel injector is susceptible to the inner poppet falling out due to a worn spring retainer. This situation can increase the probability of fouling that can cause a high restriction of the injection of fuel into the aftertreatment system. Malfunctioned EcoFit™ aftertreatment fuel injectors will have a hole in the center of the injection point. A normal EcoFit™ aftertreatment fuel injector will have a visible plunger (poppet) at the center of the injection point.

NOTE: For further information, pictures, and part numbers, reference **Cummins® TSB 130159**. This technical service bulletin can be located on QuickServe Online in the "TSB" tab under the "Service" section.

Repair Procedure

For ISX15 CM2350 X101 Engines:

If the EcoFit™ aftertreatment fuel injector is missing the lower poppet, reference **Cummins® TSB 130159** located on QuickServe Online in the "TSB" tab under the "Service" section, or type "TSB130159" into the search bar, to find repair instructions.

If the EcoFit™ aftertreatment fuel injector is NOT missing the lower poppet, follow normal repair procedures. For ISX15 CM2350 Engines, return to Fault Code Analyzer and EDS to diagnose the fault codes.

For Navistar® 13L Engines with SCR:

If the EcoFit™ aftertreatment fuel injector is missing the lower poppet, replace the aftertreatment fuel injector. Reference the repair procedure in the Navistar® N13 with SCR Engine Service Manual when replacing the aftertreatment fuel injector. For further information on repair actions and/or recent changes, reference **Cummins® TSB 130159** located on QuickServe Online in the "TSB" tab under the "Service" section, or type "TSB130159" into the search bar.

If the EcoFit™ aftertreatment fuel injector is NOT missing the lower poppet, follow normal repair procedures. For Navistar® 13L Engines with SCR, follow diagnostic procedures in the current version of the N13 Engine with SCR (EPA 2010) Diagnostic Manual.

Warranty Information

The information in this document has no effect on Navistar's present warranty coverage or repair practices, nor does it authorize campaign actions. See **Cummins® TSB 130159** for further warranty guidelines on units equipped with ISX Engines.

If the aftertreatment fuel injector was replaced on a unit equipped with an Navistar® 13L Engine with SCR, use the Standard Repair Time and Warranty Claim Coding shown below.

Standard Repair Time (N13 ONLY):

Hours	Code	Model

1.7	R12-7559US	ProStar
1.7	S12-7559US	LoneStar
1.4	Q12-7559US	TranStar
1.4	N12-7559US	7600


Warranty Claim Coding (N13 ONLY):

Group	Noun	Noun Description
12000	559	Doser/Regeneration Fuel Injector

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