

Part 573 Safety Recall Report

20E-018

Manufacturer Name : Cummins Inc.

Submission Date : APR 21, 2020

NHTSA Recall No. : 20E-018

Manufacturer Recall No. : C2302



Manufacturer Information :

Manufacturer Name : Cummins Inc.

Address : Box 3005, Mail Code 41303
Columbus IN 47202-3005

Company phone : 812-377-5000

Population :

Number of potentially involved : 68,605

Estimated percentage with defect : 10 %

Equipment Information :

Brand / Trade 1 : Cummins Inc.

Model : B6.7

Part No. : D313029BX03

Size : NR

Function : Diesel Engine

Descriptive Information : Medium duty diesel engine used in school buses, trucks and emergency vehicles and equipped with a fuel module option number FS90301 or FS90453. The fuel module contains an electric fuel heater. The recall covers certain engines built during the identified production period. The affected engines are within three subsets that may contain the subject fuel heater. The first subset consists of engines built from 16Dec2015 to 25Feb2019 that are in the scope of NHTSA Recall 19E-020 (Cummins Safety Campaign C2127). The second subset of engines consists of engines built from 26Feb2019 to 4Nov2019 without a fuel heater; these engines were not subject to NHTSA Recall 19E-020, but some of these engines had the subject fuel heaters installed in the field as part of commercial actions (Cummins Campaign C2128 and ATC2278). The third subset consists of engines built with the subject fuel heater from 5Nov2019 to 24Mar2020.

Production Dates : DEC 16, 2015 - MAR 24, 2020

Description of Defect :

Description of the Defect : Excessive electrical heating within the fuel heater may create sufficient heat inside the fuel heater to cause plastic in the fuel heater to melt and potentially catch fire. It may also cause an engine stall.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A fire, if undetected and uncontained, presents an increased risk of personal injury. An unexpected engine stall may increase the risk of a crash.

Description of the Cause : The cause is excessive electrical heating internal to the fuel heater.

Identification of Any Warning that can Occur : Melting of the fuel heater or fuel seepage from around the fuel heater may be visible during a service event, smoke may precede or accompany a fire or the engine may become increasingly difficult to start.

Involved Components :

Component Name : Element, Heating

Component Description : Fuel Heater

Component Part Number : 5361659

Supplier Identification :

Component Manufacturer

Name : DBK David + Baader GmbH

Address : Nording 26

Rulzheim FOREIGN STATES 76761

Country : Germany

Chronology :

Feb. 4, 2020 - Cummins received the first field report of a melted fuel heater on an engine that had a remedy completed per NHTSA Recall 19E-040. Feb. 5-7, 2020 - Cummins sent an engineering team to the site of the reported melted fuel heater to investigate the failure. The team confirmed that the remedy had been properly performed. During this investigation, Cummins became aware of two additional reports of melted fuel heaters. Feb. 8-25, 2020 - Cummins investigated the issue, including completing tear-down analysis of the returned fuel heaters. During this time, Cummins received a total of five melted heaters returned from the field. Feb. 26, 2020 - Cummins conducted a Product Safety Hazard Analysis and concluded that there was insufficient information to determine that the fuel heaters contained a safety defect. The recommendation was to continue to investigate the issue. Feb. 26, 2020 - Mar. 10, 2020 - Cummins continued the investigation, including analysis of four additional melted fuel heaters returned to Cummins and conducting tests to understand the cause and the potential scope of the issue. March 11, 2020 - Cummins revisited the Product Safety Hazard Analysis with the additional information from the investigation. March 24, 2020 - Based upon the data collected and evaluation of the issue, Cummins decided to conduct a safety recall to address this condition. To date, a total of twelve melted fuel heaters have been reported to

Cummins. There have been no reports of fires, accidents or injuries related to this condition.

Description of Remedy :

Description of Remedy Program : The remedy will consist of the following: (1) disabling the fuel heater by either installing a plug in place of the heater or otherwise rendering the fuel heater inoperable and (2) removing the fuse supplying electrical power to the fuel heater and installing a cover over the wire harness connector.

This safety recall addresses the potential safety defect; however this repair will disable the fuel heater. Cummins is working to determine an alternative cold weather starting aid for customers that require it. Cummins will notify Cummins Distributors and Dealers when a separate (commercial, non-safety related) field action is available.

The remedy program will address the three distinct subsets of engines that comprise the total population identified.

A recall-specific reimbursement plan will be provided in the Recall Portal for those units not covered by the manufacturer's limited warranty.

How Remedy Component Differs from Recalled Component : The remedy will either replace the recalled component with a plug or render the fuel heater inoperable by removing the electrical connector. In both cases, it will be apparent upon visual inspection that the remedy has been completed.

Identify How/When Recall Condition was Corrected in Production : On March 24, 2020 engine production began with the subject fuel heater removed from the engine.

Recall Schedule :

Description of Recall Schedule : With the OEM's agreement, Cummins will conduct the recall and notify owners. The timing of owner notification will be determined in consultation with the affected OEM. Owner notification will commence promptly after the receipt of the vehicle OEM's customer contact information. Cummins expects to publish the Safety Campaign to its Distributors and Dealers by May 1, 2020 and to mail owner letters by May 29, 2020.

Planned Dealer Notification Date : MAY 01, 2020 - MAY 01, 2020

Planned Owner Notification Date : MAY 29, 2020 - MAY 29, 2020

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Navistar International Transportation

Address : 2701 Navistar Drive

Lisle IL 60532

Country : US

Company Phone : 331 332 1590

* NR - Not Reported