

Part 573 Safety Recall Report

22E-063

Manufacturer Name : Cummins, Inc.

Submission Date : AUG 09, 2022

NHTSA Recall No. : 22E-063

Manufacturer Recall No. : C2614



Manufacturer Information :

Manufacturer Name : Cummins, Inc.

Address : Box 3005
Mail Code COB118 Columbus IN
47202-3005

Company phone : 812-377-5000

Population :

Number of potentially involved : 12,196

Estimated percentage with defect : NR

Equipment Information :

Brand / Trade 1 : Cummins Inc.

Model : X15

Part No. : D103019BX03

Size : NR

Function : Diesel Engine

Descriptive Information : The engine is controlled by an Engine Control Module (ECM), which receives electrical power via a fused circuit from the vehicle's battery. This defect notification covers the entire population of engines manufactured with the suspect ECMs, as identified by the supplier. Cummins will notify OEM customers of this defect. For those OEMs that make a safety defect determination with respect to their potentially affected vehicle population, Cummins will, at the OEM's request, conduct the notification and remedy campaign on their behalf.

Production Dates : MAY 20, 2022 - JUN 27, 2022

Brand / Trade 2 : Cummins Inc.

Model : X12

Part No. : DOS3009BX03

Size : NR

Function : Diesel Engine

Descriptive Information : The engine is controlled by an Engine Control Module (ECM), which receives electrical power via a fused circuit from the vehicle's battery. This defect notification covers the entire population of engines manufactured with the suspect ECMs, as identified by the supplier. Cummins will notify OEM customers of this defect. For those OEMs that make a safety defect determination with respect to their potentially affected vehicle population, Cummins will, at the OEM's request, conduct the notification and remedy campaign on their behalf.

Production Dates : MAY 25, 2022 - JUN 28, 2022

Brand / Trade 3 : Cummins Inc.

Model : L9

Part No. : D563027BX03

Size : NR

Function : Diesel Engine

Descriptive Information : The engine is controlled by an Engine Control Module (ECM), which receives electrical power via a fused circuit from the vehicle's battery. This defect notification covers the entire population of engines manufactured with the suspect ECMs, as identified by the supplier. Cummins will notify OEM customers of this defect. For those OEMs that make a safety defect determination with respect to their potentially affected vehicle population, Cummins will, at the OEM's request, conduct the notification and remedy campaign on their behalf.

Production Dates : MAY 17, 2022 - JUN 21, 2022

Brand / Trade 4 : Cummins Inc.

Model : B6.7

Part No. : D313038BX03

Size : NR

Function : Diesel Engine

Descriptive Information : The engine is controlled by an Engine Control Module (ECM), which receives electrical power via a fused circuit from the vehicle's battery. This defect notification covers the entire population of engines manufactured with the suspect ECMs, as identified by the supplier. Cummins will notify OEM customers of this defect. For those OEMs that make a safety defect determination with respect to their potentially affected vehicle population, Cummins will, at the OEM's request, conduct the notification and remedy campaign on their behalf.

Production Dates : MAY 13, 2022 - JUN 15, 2022

Brand / Trade 5 : Cummins Inc.

Model : B6.7

Part No. : D313028BX03

Size : NR

Function : Diesel Engine

Descriptive Information : The engine is controlled by an Engine Control Module (ECM), which receives electrical power via a fused circuit from the vehicle's battery. This defect notification covers the entire population of engines manufactured with the suspect ECMs, as identified by the supplier. Cummins will notify OEM customers of this defect. For those OEMs that make a safety defect determination with respect to their potentially affected vehicle population, Cummins will, at the OEM's request, conduct the notification and remedy campaign on their behalf.

Production Dates : MAY 21, 2022 - JUN 22, 2022

Description of Defect :

Description of the Defect : ECMs within the subject population that are affected by the defect condition may develop an internal electrical short circuit, possibly resulting in an engine stall without warning. If this occurs, the engine cannot be restarted until replacement of the ECM and, if necessary, the fuse.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : An unexpected engine stall without the ability to restart the engine may lead to an increased risk of a crash.

Description of the Cause : A screw in the supplier's selective solder fixture backed out of position, pushing an electrolytic capacitor frame into the Printed Circuit Board (PCB) during ECM production.

Identification of Any Warning that can Occur : None

Involved Components :

Component Name : Module, Electronic Control

Component Description : Engine Control Module

Component Part Number : 5572391

Component Name : Module, Electronic Control

Component Description : Engine Control Module

Component Part Number : 5677664

Component Name : Module, Electronic Control

Component Description : Engine Control Module

Component Part Number : 6372744

Supplier Identification :**Component Manufacturer**

Name : Vitesco

Address : 2400 Executive Hills Blvd
Auburn Hills Michigan 48326
Country : United States

Chronology :

6/14/22– Cummins received a report from an OEM of an ECM failure at an OEM facility.

6/21/22 – Cummins notified the ECM supplier, Vitesco, of the failure.

6/21/22-6/29/22 – Cummins received additional reports from OEMs of ECM failures occurring during production. Cummins collected and returned three ECMs to the supplier for failure analysis.

6/28/22 - 6/30/22 - Vitesco informed Cummins about the potential circuit board (PCB) damage after confirming that ECMs returned from Cummins were due to this failure mode. According to the supplier, ECMs with potentially damaged PCBs were produced 5/16/22 - 6/2/22. Cummins initiated containment actions at impacted engine plants and vehicle OEM plants.

6/30/22 – Cummins and Vitesco began investigating the failure mechanisms and potential screening test methods.

6/14/22 – 7/19/22 – Cummins received two field reports alleging on-road engine stalls.

7/11/22-7/12/22-- Cummins conducted a Product Safety Hazard Analysis.

7/12/22-7/19/22 - Cummins escalated the issue through its Product Safety Defect Determination process, including gathering additional information and conducting additional analysis for the Product Safety Hazard Analysis.

7/21/22 - Based upon the results of the investigation, the Cummins Product Safety Defect Board decided this

issue constitutes a safety defect. Accordingly, Cummins will notify OEM customers of this defect. For those OEMs that make a safety defect determination with respect to their potentially affected vehicle population, Cummins will, at the OEM's request, conduct the notification and remedy campaign on their behalf.

To date, there have been no reports of accidents or injuries due to this condition.

Note regarding production start dates: For reasons unrelated to this issue, some engines were built without ECMs prior to 5/16/22 and later upfit with suspect ECMs.

Description of Remedy :

Description of Remedy Program : Cummins will replace the suspect ECM. Pursuant to 49 CFR 577.11(e), Cummins requests that it be exempt from providing notification of a reimbursement plan. Any pre-notification product failure would have been replaced under the manufacturer's limited warranty. Accordingly, no person would be eligible for reimbursement pursuant to 573.13.

How Remedy Component Differs from Recalled Component : The remedy ECM will have a different serial number than the recalled component.

Identify How/When Recall Condition was Corrected in Production : Vitesco corrected the ECM production assembly process on June 2, 2022. Cummins initiated containment actions at impacted engine plants on June 28, 2022.

Recall Schedule :

Description of Recall Schedule : Cummins expects to notify affected OEMs no later than August 5, 2022. Subject to OEM agreement, Cummins will conduct the recall and notify affected owners. The timing of owner notification will be determined in consultation with OEMs that request Cummins to conduct the recall on their behalf, but Cummins will be prepared to notify owners no later than September 26, 2022. Cummins expects to release a Safety Campaign to the field by September 26, 2022.

Planned Dealer Notification Date : SEP 26, 2022 - SEP 26, 2022

Planned Owner Notification Date : SEP 26, 2022 - NR

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 : Autocar
Address : 551 South Washington Street
Hagerstown IN 47346
Country : US
Company Phone : 8779733486

Name : Blue Bird Corporation
Address : 3920 Arkwright Road
Suite 200 Macon GA 3120
Country : US
Company Phone : 4788222167

Name : Daimler Trucks North America
Address : 4747 North Channel Ave
Portland OR 97217
Country : US
Company Phone : 5037544439

Name : E-One
Address : 4161 SW 13th Street
Ocala FL 34474
Country : US
Company Phone : 3528615044

Name : Ferrara Fire Apparatus
Address : 27855 James Chapel Road
Holden LA 70744
Country : US
Company Phone : 80044390063011

Name : Gillig Corporation
Address : 451 Discovery Drive
Livermore CA 94551
Country : US
Company Phone : 5102643833

Name : Hollingshead Mixer Company
Address : 1136 2nd Ave
North Nashville TN 37208
Country : US
Company Phone : 2608974397

Name : Kenworth Motor Truck Co
Address : 16030 NE 38th Place
Kirkland WA 98033
Country : US
Company Phone : 4258285201

Name : Motor Coach Industries, LTD
Address : 1475 Clarence Ave
Winnipeg 00 MB R3J 1T5
Country : CA
Company Phone : 2042246707

Name : New Flyer Industries Canada ULC
Address : 711 Kernaghan Ave
Winnipeg 00 MB R2C3T4
Country : CA
Company Phone : 2042246706

Name : Oshkosh Defense
Address : 524 County Road 34 East
Dodge Center MN 55927
Country : US
Company Phone : 5073744826

Name : Peterbilt Motors Company
Address : 3200 Airport Road
Denton TX 76202
Country : US
Company Phone : 9402202760

Name : Pierce Manufacturing, Inc.
Address : 2600 American Drive
Appleton WI 54912
Country : US
Company Phone : 9208323346

Name : Rosenbauer America, LLC
Address : 100 3rd Street
Lyons SD 57041
Country : US
Company Phone : 60554359919512

Name : Seagrave Fire, LLC
Address : 105 East 12th Street
Clintonville WI 54929
Country : US
Company Phone : 71582321411910

Name : The Shyft Group
Address : 1541 Reynolds Road
Charlotte MI 48813
Country : US
Company Phone : 5177595793

Name : Spartan Fire, LLC
Address : 1541 Reynolds Road
Charlotte MI 48813
Country : US
Company Phone : 51758847006024

Name : Sutphen Corporation
Address : 6450 Eiterman Road
Dublin OH 43016
Country : US
Company Phone : 6148891005

Name : Sutphen Corporation
Address : 6450 Eiterman Road
Dublin OH 43016
Country : US
Company Phone : 6148891005

Name : Terex Advance Mixer
Address : 7727 Freedom Way
Fort Wayne IN 46818
Country : US
Company Phone : 2609694549

Name : Tiffin Motorhomes
Address : 105 2nd Street NW
Red Bay AL 35582
Country : US
Company Phone : 2563563088

Name : Volvo Trucks of North America
Address : 7900 National Service Road
Greensboro NC 27409
Country : US
Company Phone : 3015735972

Name : Novabus
Address : 1000 boul. Industriel
St-Austache, QC 00 J7R 5A5
Country : CA
Company Phone : 4388431428

Name : Navistar Intl Transportation
Address : 2701 Navistar Drive
Lisle IL 60532
Country : US
Company Phone : 3313325684

Name : Isuzu North America Corp. LLC
Address : 1600 S. Claudina Way
Anaheim CA 92806
Country : US
Company Phone : 5629643976

Name : Hino Motors Manufacturing USA
Address : 45501 Twelve Mile Road
Novi MI 48377
Country : US
Company Phone : 2484426186

Name : FCA US, LLC
Address : 800 Chrysler Drive
Auburn Hills MI 48326
Country : US
Company Phone : 2485769464

Name : Eldorado Bus
Address : 9670 Galena St
Riverside CA 92509
Country : US
Company Phone : 9515299052

Name : Kalmar Solutions LLC

Address : 415 East Dundee Street
Ottawa KS 66067

Country : US

Company Phone : NR

* NR - Not Reported