

# Part 573 Safety Recall Report

# 21E-099

**Manufacturer Name :** Cummins, Inc.

**Submission Date :** DEC 17, 2021

**NHTSA Recall No. :** 21E-099

**Manufacturer Recall No. :** C2532



## 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 :** 10,938

**Estimated percentage with defect :** 1 %

## Equipment Information :

**Brand / Trade 1 :** Cummins Inc.

**Model :** X12

**Part No. :** DOS3005BX03

**Size :** NR

**Function :** Diesel engine

**Descriptive Information :** These engines are equipped with High Pressure Common Rail fuel systems and sold for installation in mixer, truck, coach, emergency vehicle, refuse truck, recreational vehicle and crane applications. The recall consists of the entire population of engines equipped with a certain Injector Fuel Supply Tube (fuel tube) prior to the implementation of corrective action.

**Production Dates :** APR 26, 2016 - OCT 11, 2021

**Brand / Trade 2 :** Cummins Inc.

**Model :** X12

**Part No. :** DOS3009BX03

**Size :** NR

**Function :** Diesel engine

**Descriptive Information :** These engines are equipped with High Pressure Common Rail fuel systems and sold for installation in mixer, truck, coach, emergency vehicle, refuse truck, recreational vehicle and crane applications. The recall consists of the entire population of engines equipped with a certain Injector Fuel Supply Tube (fuel tube) prior to the implementation of corrective action.

**Production Dates :** AUG 27, 2019 - NOV 01, 2021

**Description of Defect :**

Description of the Defect : The fuel tubes between the fuel rail and the injector for cylinders 4, 5 and 6 may be susceptible to cracking, resulting in a high pressure fuel leak.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A high pressure fuel leak in the presence of an ignition source may increase the risk of a fire.

Description of the Cause : The subject fuel tubes (for cylinders 4, 5 and 6) are susceptible to cracking due to metal fatigue failure resulting from a combination of vibration strain, assembly strain and material strength.

Identification of Any Warning that can Occur : Fuel leaks may be detected during maintenance. An operator may smell fuel or observe a mist due to the fuel leak.

**Involved Components :**

Component Name : Injector Fuel Supply Tube

Component Description : Fuel tube between fuel rail and fuel injector

Component Part Number : 5536516

Component Name : Injector Fuel Supply Tube

Component Description : Fuel tube between fuel rail and fuel injector

Component Part Number : 5486389

Component Name : Injector Fuel Supply Tube

Component Description : Fuel tube between fuel rail and fuel injector

Component Part Number : 3695190

**Supplier Identification :****Component Manufacturer**

Name : Usui International Corporation

Address : 44780 Helm Street

Plymouth Michigan 48170

Country : United States

## Chronology :

19Apr2021 – Cummins received a Technical Service Request for a leaking fuel tube on an X12 engine.

19Apr-23Jul2021 – Cummins received additional reports of leaking fuel tubes on X12 engines and escalated the issue for further investigation.

23Jul2021 – Cummins initiated a Product Problem Solving (PPS) project to investigate the cause of the fuel tube leaks.

Aug-Oct2021 – Cummins continued to investigate this issue, including obtaining and analyzing parts from the field, conducting testing to understand the cause of the failures and evaluating potential corrective action. As part of the investigation, Cummins identified 29 warranty claims for fuel tube fuel leaks (not all of which had cracked tubes) with a date range of March 6, 2020 through September 22, 2021 (as of September 22, 2021).

19Oct2021 – Cummins investigated a September 2021 fire on a vehicle equipped with an X12 engine.

25Oct2021 – Cummins identified a leak of the #5 cylinder fuel tube as the cause of the fire.

28Oct2021 – Cummins completed a Product Safety Hazard Analysis.

1Nov-23Nov2021 – Cummins escalated the issue through its Product Safety Defect Board process.

23Nov2021 – Based upon the results of the investigation, the Cummins Product Safety Defect Board decided to conduct a safety campaign to address this condition. To date, there have been no reports of injuries due to this condition.

## Description of Remedy :

Description of Remedy Program : For engines having 75 miles or less, the remedy will consist of adding vibration isolators to the fuel tubes; fuel tubes do not need to be replaced. For all other engines, the subject fuel tubes for cylinders 4, 5 and 6 (the rear half of the engine) will be replaced with new fuel tubes (having the same part number as the recalled components) and vibration isolators will be added to the fuel tubes to engines. A recall-specific reimbursement plan will be provided on the Recall Portal for those units not covered by the manufacturer's limited warranty.

How Remedy Component Differs from Recalled Component : The replacement fuel tubes will also have vibration isolators. The fuel tube and vibration isolator combination will have a new part number.

**Identify How/When Recall Condition was Corrected in Production :** The injector alignment to the cylinder head was improved by implementing an improved alignment fixture during engine assembly and vibration isolators were added to the fuel tubes during engine assembly on November 2, 2021.

## Recall Schedule :

**Description of Recall Schedule :** Cummins notified affected OEMs no later than December 10, 2021. Cummins will conduct the recall and notify owners. The timing of owner notification will be determined in consultation with the affected OEMs and subject to availability of addresses from the affected OEMs. Cummins expects to mail interim owner notifications, subject to receipt of owner addresses from OEMs that elect to have Cummins handle notification, by January 28, 2022. Cummins expects to release the Safety Campaign with the remedy on or about February 18, 2022 and to send final owner notifications, subject to receipt of owner addresses from these OEMs, on or about March 11, 2022.

**Planned Dealer Notification Date :** FEB 18, 2022 - FEB 18, 2022

**Planned Owner Notification Date :** JAN 28, 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 :** Watson Hopper

**Address :** 19441 Highway 92  
Delta CO 81416

**Country :** US

**Company Phone :** 9708747384102

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**Address :** 19441 Highway 92  
Delta CO 81416

**Country :** US

**Company Phone :** 9708747384102

**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 : Grove Worldwide  
Address : 1565 Buchanan Trail East  
Shady Grove PA 17256  
Country : US  
Company Phone : 7175935234

Name : HME, Inc.  
Address : 1950 Byron Center Ave  
Wyoming MI 49519  
Country : US  
Company Phone : 6165341463256

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

Name : Jiangxi KAMA Business Bus Co., LTD  
Address : No. 149 West Yuping Rd  
Nanchang Economic Development Zone Jiangxi 00 330013  
Country : CN  
Company Phone : 13755681010

Name : KME  
Address : One Industrial Complex  
Nesquehoning PA 18240  
Country : US  
Company Phone : 5702732859

Name : Link-Belt Construction Equipment Co.  
Address : 2651 Palumbo Drive  
Lexington KY 40509  
Country : US  
Company Phone : 8592635200

Name : M-B Corporation  
Address : 202 MB Lane  
Chilton WI 53014  
Country : US  
Company Phone : 9208981078

Name : Motor Coach Industries, LTD  
Address : 1475 Clarence Ave  
Winnipeg 00 MB R3T 1T5  
Country : CA  
Company Phone : 2042246707

Name : Oshkosh Defense  
Address : 524 County Road 34 East  
Dodge Center MN 55927  
Country : US  
Company Phone : 5073748246

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 : 60554355919512

Name : RPM Tech  
Address : 2220 Boul. Jean-de-Brebeuf  
Drummonville, Quebec 00 J2B 8A1  
Country : CA  
Company Phone : 8194781421

Name : Seagrave Fire Apparatus, 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 : Temsa Skoda Sabanci Ulasim Araclari AS  
Address : Sarihamzali Mahallesi  
Turhan Cemal Beriker Bulv. 563A Seyhan, Adana 00 01323  
Country : TR  
Company Phone : 3224410226

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

Name : Van Hool, NV  
Address : Bernard Van Hoolstraat 58  
Lier (Konishgshooikt) 00 BE-2500  
Country : BE  
Company Phone : 0323422731

Name : Autocar, LLC  
Address : 551 South Washington Street  
Hagerstown MD 47346  
Country : US  
Company Phone : 8779733486

Name : American Coach De Mexico

Address : Avienda Corredor Industrial 3R-2

Fraccionamiento, Industrialm 43998 Cd. Sahagun, Hidalgo 00

Country : MX

Company Phone : 15537073078

Name : Daimler Trucks North America

Address : 4747 N. Channel Ave

Portland OR 97217

Country : US

Company Phone : 5037457385

\* NR - Not Reported