

Part 573 Safety Recall Report

24E-078

Manufacturer Name : Cummins, Inc.

Submission Date : OCT 03, 2024

NHTSA Recall No. : 24E-078

Manufacturer Recall No. : C7083



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 : 9,292

Estimated percentage with defect : 3 %

Equipment Information :

Brand / Trade 1 : Cummins, Inc

Model : X15

Part No. : D103019BX03

Size : NR

Function : Diesel Engine

Descriptive Information : This recall covers certain Cummins X15 engines (quantity 8,909) equipped with fuel pump Option Number FP10323. The recall consists of the entire population built between the identified production dates that were equipped with this fuel pump option. The subject engines were sold to various OEMs for installation in on-road applications. The production "Begin" and "End" dates are based on the build date listed on the affected engines' dataplates.

Production Dates : JUN 10, 2024 - AUG 30, 2024

Brand / Trade 2 : Cummins, Inc

Model : X15

Part No. : 631058000

Size : NR

Function : Diesel Engine

Descriptive Information : This recall covers certain Cummins X15 fuel pump barrel service kits (quantity 180) built with barrel part number 5593839. The recall consists of the entire population built between the identified production dates that were equipped with this fuel pump barrel. The subject service kits were sold to various OEMs.

Production Dates : APR 01, 2024 - AUG 16, 2024

Brand / Trade 3 : Cummins, Inc

Model : X15

Part No. : 559463000, 559462500

Size : NR

Function : Diesel Engine

Descriptive Information : This recall covers certain Cummins X15 fuel pump service assemblies built with barrel part number 5593839. There are two (2) barrel parts used in each fuel pump service assembly. The recall consists of the entire population built between the identified production dates that were equipped with this fuel pump barrel. The subject service pumps were sold to various OEMs (quantity 141 of 559463000 and quantity 44 of 559462500 for a total of 370 of barrel part number 5593839).

Production Dates : JUN 02, 2024 - AUG 22, 2024

Brand / Trade 4 : Cummins, Inc

Model : X15

Part No. : DR7989-RX

Size : NR

Function : Diesel Engine

Descriptive Information : This recall covers certain Cummins re-manufactured X15 engines (quantity 18) equipped with fuel pump Option Number FP10323. The recall consists of the entire population built between the identified production dates that were equipped with this fuel pump option. The subject engines were sold to various OEMs or Cummins Distributors for installation in on-road applications. The production "Begin" and "End" dates are based on the build date listed on the affected engines' dataplates.

Production Dates : AUG 13, 2024 - AUG 14, 2024

Description of Defect :

Description of the Defect : The fuel pump barrels installed on some of the engines in the subject population may have been built using low fatigue strength parts, making them susceptible to fracture.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a fuel pump barrel fractures, an external fuel leak and sudden loss of fuel pressure may occur, potentially causing the engine to stall without the ability to restart. An engine stall without the ability to restart may increase the risk of a crash.

Description of the Cause : Defective parts have incomplete heat treat scale removal and nonconforming shot peening coverage, resulting in low fatigue strength. A quality issue in the

Identification of Any Warning that can Occur :

heat treatment process created a nonconforming, abnormal surface layer with reduced hardness on some of the parts. This softer surface layer could potentially prevent the shot peening operation from being fully effective.
The vehicle operator may experience reduced performance and / or may see a warning lamp when fuel pressure drops below the commanded value. Persons in or around the vehicle may also see or smell diesel fuel.

Involved Components :

Component Name : Barrel, Pump Tappet

Component Description : High pressure fuel passages

Component Part Number : 5593839

Supplier Identification :

Component Manufacturer

Name : Aalberts Surface Technologies

Address : 4000 WI-91
Oshkosh Wisconsin 54904

Country : United States

Chronology :

20July2024 – The first end of line test failure at JEP (Jamestown Engine Plant) occurs.

25July2024 – Determination made that the end of line failure was due to barrel fracture.

25July : 13Aug2024 – JEP quality is able to identify the potential defect after review of accumulated plant data.

14Aug2024 – Product safety leaders were informed.

19Aug2024 : 15Sept2024 – A product safety investigation is conducted, including performing a Product Safety Hazard Analysis to evaluate the potential safety risk.

16Sept2024 – The Cummins Product Safety Defect Board decided to initiate a safety campaign to address this defect. To date, there have been no reports of fires, accidents or injuries related to this issue.

Description of Remedy :

Description of Remedy Program : The remedy is to replace the suspect fuel pump barrels (two (2) barrels per fuel pump) with new verified parts.

Cummins requests that it be exempt from providing notification of a reimbursement plan. Any pre-notification product failure would have been corrected 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 components have been made to the correct heat treatment and shot peening specifications, resulting in the expected component fatigue strength.

Identify How/When Recall Condition was Corrected in Production : The condition was corrected in production on 08/28/2024 after the process non-conformance was rectified.

Recall Schedule :

Description of Recall Schedule : Cummins expects to notify the OEMs, by 10/16/2024. Subject to consultation and agreement with the OEMs, Cummins will conduct the recall, including sending owner notifications. The timing of owner notification will be determined in consultation with the OEMs. In any event, Cummins expects to notify owners no later than 11/22/2024, pending availability of owner addresses from the OEMs.

Planned Dealer Notification Date : OCT 16, 2024 - OCT 16, 2024

Planned Owner Notification Date : NOV 22, 2024 - NOV 22, 2024

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 : Kenworth

Address : 16030 NE 38th Place
Kirkland WA 98033

Country : US

Company Phone : NR

Name : Peterbilt

Address : 3200 Airport Rd.
Denton TX 76202

Country : US

Company Phone : NR

Name : Navistar
Address : 2701 Navistar Dr.
Lisle IL 60532

Country : US
Company Phone : NR

Name : DTNA
Address : 4747 N Channel Ave
Portland OR 97217

Country : US
Company Phone : NR

Name : Emergency One
Address : 1601 SW 37TH AVE
Ocala FL 34474

Country : US
Company Phone : NR

Name : Pierce Mfg.
Address : 2600 American Dr
Appleton WI 54914

Country : US
Company Phone : NR

Name : Shyft Group
Address : 1000 Reynolds Rd
Charlotte MI 48813

Country : US
Company Phone : NR

Name : Rosenbauer Motors LLC
Address : 5181 260th St.
Wyoming MN 55092

Country : US
Company Phone : NR

Name : Link-Belt MFG
Address : 2651 Palumbo Dr
Lexington KY 40509

Country : US
Company Phone : NR

Name : Spartan Fire, LLC
Address : 1541 Reynolds Rd
Charlotte MI 48813

Country : US
Company Phone : NR

Name : Sutphen Corp.
Address : 935 S. Edgewood Ave.
Urbana OH 43078

Country : US
Company Phone : NR

Name : Newell Coach
Address : 3900 N Main Street
Miami OH 74354

Country : US
Company Phone : NR

* NR - Not Reported