

Part 573 Safety Recall Report

22V-095

Manufacturer Name : HME, Inc.

Submission Date : APR 12, 2022

NHTSA Recall No. : 22V-095

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : HME, Inc.

Address : 1950 Byron Center Ave.

Wyoming MI 49519

Company phone : 616-534-1463

Population :

Number of potentially involved : 9

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2019-2021 HME AF1 and 1871

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The recall consists of the entire population of engines equipped with a certain Injector Fuel Supply (fuel tube) prior to implementation of corrective action and sold to HME from Cummins.

Production Dates : FEB 22, 2019 - OCT 13, 2021

VIN Range 1 : Begin :

NR

End : NR

Not sequential

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 : NR

Involved Components :

Component Name 1 : Injector Fuel Supply Tube

Component Description : Fuel tube between fuel rail and fuel injector

Component Part Number : 5536516

Component Name 2 : Injector Fuel Supply Tube

Component Description : Fuel tube between fuel rail and fuel injector

Component Part Number : 5486389

Component Name 3 : 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.

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 results of the investigation, the Cummins Product Safety Defect Board decided to conduct a safety campaign to address this condition.

7Dec2021: Cummins notified HME of safety campaign.

Description of Remedy :

Description of Remedy Program :	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. 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 the engine assembly on November 2, 2021.

Recall Schedule :

Description of Recall Schedule :	Cummins will conduct the recall and notify owners.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	NR - NR

* NR - Not Reported