

# Part 573 Safety Recall Report

## 22E-060

**Manufacturer Name :** Cummins, Inc.

**Submission Date :** AUG 16, 2022

**NHTSA Recall No. :** 22E-060

**Manufacturer Recall No. :** C2623



### 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 : 1,213

Estimated percentage with defect : NR

### Equipment Information :

Brand / Trade 1 : Cummins Inc.

Model : BP74E

Part No. : 6301592, A063V367

Size : NR

Function : Battery Pack

**Descriptive Information :** This recall encompasses the entire population of battery packs built until corrective action was implemented on 20 May 2022. All of these battery packs were sold for installation into transit bus applications.

**Production Dates :** AUG 06, 2020 - MAY 19, 2022

### Description of Defect :

**Description of the Defect :** Internal coolant leaks may develop within the battery pack, potentially creating a high voltage short circuit via the conduction path through the coolant. This condition may result in localized heating within the battery.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** Under certain conditions, an internal coolant leak may lead to gases venting from the battery pack, smoke or a battery fire.

**Description of the Cause :** The causes of the internal coolant leaks are a loose coolant outlet connector or an improperly loaded bolted joint inside of the battery pack.

**Identification of Any Warning that can Occur :** The internally leaking coolant will cause an isolation fault to set, and a High Voltage Exposure and Stop EV lamp to be displayed on the vehicle dashboard while the vehicle is in operation.

**Involved Components :**

Component Name : Pack, Storage Battery

Component Description : Battery Pack

Component Part Number : 6301592

Component Name : Pack, Storage Battery

Component Description : Battery Pack

Component Part Number : A063V367

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

Name : N/A

Address : NR

NR

Country : NR

**Chronology :**

1/22/22 – 2/11/22 – Cummins received a report of an isolation fault set on a bus at an OEM facility. A service technician identified that a coolant leak inside the battery pack triggered an isolation fault. The battery pack was removed from the vehicle, loaded into a battery container, and shipped to Cummins for a tear-down analysis. While en route to Cummins, the driver of the transporting truck observed smoke coming from the trailer and called emergency services. The battery container and trailer were subsequently doused and quarantined. Subsequent tear-down analysis at Cummins was inconclusive as to the cause of the leak.

2/16/22 – Cummins changed the service procedure to specify that failed battery packs be shipped back to Cummins with open carriage and dedicated transport.

3/7/22 – Cummins initiated a Product Safety Hazard Analysis and continued the investigation.

4/15/22-5/20/22– Cummins received reports of two additional suspected leaks on a unit at an OEM and on a unit in the field. Cummins investigated these incidents, and the battery packs were shipped to Cummins for tear-down analysis. There were no reports of smoke or fire on these units.

5/20/22 – Cummins completed the Product Safety Hazard Analysis.

5/20/22-7/12/2022 – Cummins escalated the issue through its Product Safety Defect Determination process, including gathering additional information and conducting additional analysis.

7/12/22 – 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 vehicle fires or injuries due to this condition.

### Description of Remedy :

Description of Remedy Program :	The remedy is to change the battery pack coolant to a low conductivity coolant and to tighten the internal coolant outlet fitting. Cummins is working with the vehicle manufacturers to implement the necessary vehicle changes to accommodate the new coolant. 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 :	As part of completing the remedy on the affected units, the service technician will place a sticker on the vehicle radiator indicating that only low conductivity coolant is to be used in the vehicle.
Identify How/When Recall Condition was Corrected in Production :	Manufacturing changes were implemented on 5/20/2022 to eliminate grease from the coolant outlet fitting and increase the engagement torque on the connector and changes were implemented on the subject bolted joint.

### Recall Schedule :

Description of Recall Schedule :	Cummins expects to notify the affected OEMs no later than July 22, 2022. Cummins will conduct the recall and notify owners, with agreement of the OEMs. The timing of owner notification will be determined in consultation with the affected OEMs. Cummins expects to mail interim owner letters no later than 9/16/22. Cummins expects to release the
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Safety Campaign to the field by October 2022 and will mail owner notifications at that time.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : SEP 16, 2022 - SEP 16, 2022

### 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 : Eldorado National California

Address : 9670 Galena Street  
Riverside CA 92509

Country : US

Company Phone : 9515299052

Name : Gillig Corporation

Address : 451 Discovery Drive  
Livermore CA 94551

Country : US

Company Phone : 5102643833

Name : Letenda Inc

Address : 1105 Rue Saint-Jean  
Longueuil 00 J4H-2Z3

Country : CA

Company Phone : NR

\* NR - Not Reported