

# Part 573 Safety Recall Report

# 23V-514

**Manufacturer Name :** Mack Trucks, Inc.

**Submission Date :** JUL 24, 2023

**NHTSA Recall No. :** 23V-514

**Manufacturer Recall No. :** SC0447



## Manufacturer Information :

**Manufacturer Name :** Mack Trucks, Inc.

**Address :** 2100 Mack Boulevard

PO Box M Allentown PA 18105-5000

**Company phone :** 610-709-2131

## Population :

**Number of potentially involved :** 9

**Estimated percentage with defect :** 15 %

## Vehicle Information :

**Vehicle 1 :** 2022-2023 Mack LR Battery Electric

**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES

**Body Style :** UNKNOWN

**Power Train :** HYBRID ELECTRIC

**Descriptive Information :** The population of vehicles is those equipped with Akasol batteries which were assembled and/or reworked with improper torque control on the buss bars connecting battery cells.

**Production Dates :** NOV 16, 2021 - JAN 04, 2023

**VIN Range 1 : Begin :** 1M2LRDGC6NM001028 **End :** 1M2LRDGC7PM001073  **Not sequential**

## Description of Defect :

**Description of the Defect :** Rivnut inserts are potentially overtorqued and could fail. The nut inserts can then become debris in the battery which could result in a short inside the battery pack.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** The overtorque of the busbar Rivnuts could result in nut inserts shearing off and shorting inside the battery which could result in a battery fire.

**Description of the Cause :** Akasol manufacturing insufficient process controls in assembly tooling (torque) and in battery assembly rework process.

**Identification of Any Warning that can Occur :** The vehicle battery thermal management system can provide warning to the driver of a battery overheating situation by the instrument cluster, driver information display.

## Involved Components :

Component Name 1 : Battery

Component Description : Battery, complete battery pack

Component Part Number : 23364826

## Supplier Identification :

### Component Manufacturer

Name : Akasol Inc.

Address : 1400 E. 10 Mile Road

Suite 15 Hazel Park Michigan 43080

Country : United States

## Chronology :

July 5, 2023 Volvo Manufacturing and Purchasing reports to Product Safety Working group that they have discovered a battery which had been shipped to our assembly plant had a fire (contained in the battery and not spreading in the battery). A formal investigation is opened.

July 19, 2023 Product Safety Working Group reviews product safety investigation results and recommends that this be brought to Product Safety Committee as a potential product safety defect.

July 19, 2023 The Product Safety Committee meets and decides that a product safety defect exists.

July 24, 2023 573 Report filed with NHTSA

There have been no warranty claims, field reports, accidents or injuries reported with this issue. The one incident battery which initiated the investigation was in shipment to our assembly operations and was found with the damage without any spread or other damage to batteries in the shipment or the trailer. During the investigation a second battery with evidence of arcing internally was identified at Akasol's assembly operations.

## Description of Remedy :

Description of Remedy Program : The batteries on these vehicles will be replaced. Reimbursement for the recall will be covered by Manufacturer's Reimbursement Plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : The batteries will be replaced with batteries produced after correction of the torque (torque and angle) issues at Akasol Inc. Battery, Battery, complete battery pack, 23364826

Identify How/When Recall Condition was Corrected in Production : Mack Manufacturing blocks all battery electric trucks at our assembly plant under an internal campaign July 12, 2023. All batteries on these vehicles will be replaced prior to shipment.

**Recall Schedule :**

Description of Recall Schedule : Dealer notification will begin on July 28, 2023 and owner notification will begin on or before September 15, 2023

Planned Dealer Notification Date : JUL 28, 2023 - JUL 28, 2023

Planned Owner Notification Date : SEP 15, 2023 - SEP 15, 2023

\* NR - Not Reported