

Part 573 Safety Recall Report

22V-071

Manufacturer Name : Altec Industries, Inc.

Submission Date : FEB 09, 2022

NHTSA Recall No. : 22V-071

Manufacturer Recall No. : CSN 851



Manufacturer Information :

Manufacturer Name : Altec Industries, Inc.

Address : 210 Inverness Center Drive
Birmingham AL 35242

Company phone : 205 991 7733

Population :

Number of potentially involved : 167

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2018-2021 Altec DC & DM Series Digger Derricks, AM series aerial devices

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Units produced between the affected dates with the involved components are included in the recall population. The recall population was determined from a review of production records.

Production Dates : APR 01, 2018 - JAN 20, 2021

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : The unit subbase could develop cracks in bulkhead plate.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If cracks develop, the plate could break. This could cause the stress in the shear plates to exceed design stresses. Failure of the shear plates could result in the separation of the subbase and truck frame, increasing the risk of death or serious injury to the worker or those nearby.

Description of the Cause : NR

Identification of Any Warning that can Occur : During a preoperational or periodic inspection, a crack in the bulkhead plate or shear plate should be identified.

Involved Components :

Component Name 1 : Subbase bulkhead plate

Component Description : Subbase bulkhead plate

Component Part Number : 970498549

Component Name 2 : Subbase bulkhead plate

Component Description : Subbase bulkhead plate

Component Part Number : 970513646

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

A production audit on September 30th, 2021, determined that the incorrect steel grade was used to produce parts cut from ¼ inch thick plate steel. On October 1st, 2021, Altec completed containment on all WIP after confirming the production error. Altec began to evaluate all assemblies where the incorrect material was used. On October 14th, 2021, the subbase plate was identified as a component at risk of exceeding design stress. The subbase designs that included the subject bulkhead plate were modeled and had an FEA set up to analyze the stresses in the material. On January 25th, 2022, a task was created to track the subbase issue after FEA indicated a risk of failure. On February 4th, 2022, after reviewing the analysis results, Altec determined that the material deficiency in the identified units was a safety risk. There have been no warranty claims or field reports identified. There have been no accidents, injuries, or deaths related to this issue.

Description of Remedy :

Description of Remedy Program : Altec will issue CSN 851 to all affected customers requiring them to inspect and add a reinforcement plate to the bulkhead plate that a qualified service provider can install. Altec Warranty policy covers the recall remedy, and the remedy will be provided free of charge when the unit is presented for repair.

How Remedy Component Differs from Recalled Component : The remedy includes a reinforcement plate to provide additional strength to the incorrect material grade plate installed in production.

Identify How/When Recall Condition was Corrected in Production : After identifying the nonconformance, Altec began to audit the laser program and material selection process monthly to confirm that the material used matches the material specified in the design.

Recall Schedule :

Description of Recall Schedule : Altec will issue CSN 851 to the owners of the affected units. Altec does not have a dealer network and issues letters to owners only.

Planned Dealer Notification Date : APR 08, 2022 - APR 08, 2022

Planned Owner Notification Date : APR 08, 2022 - APR 08, 2022

* NR - Not Reported