

Part 573 Safety Recall Report

21V-409

Manufacturer Name : Altec Industries, Inc.

Submission Date : JUL 16, 2021

NHTSA Recall No. : 21V-409

Manufacturer Recall No. : CSN 823



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 : 1,977

Estimated percentage with defect : 10 %

Vehicle Information :

Vehicle 1 : 2005-2021 Altec A65, A70, A75, A72-T, A77-T, A82-T

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The recall population was determined from a review of production records. All non-overcenter A-class products manufactured with the overcenter blocking valve have been included in the recall.

Production Dates : JUN 01, 2005 - JUN 01, 2021

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : In extreme cold, high boom tip tank pressure can back feed to the overcenter blocking valve. This can cause it to build pressure in the lower boom lower and upper boom raise pilot lines, keeping the spools shifted.

The lower boom lower and upper boom raise spools could remain shifted after releasing the joystick or control interlock at the boomtip control when high tank pressure is present in the pilot system.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Continued lower boom and upper boom movement after the joystick or interlock is released could occur resulting in potential injury and or property damage.

Description of the Cause : In extreme cold, high boom tip tank pressure can back feed to the overcenter blocking valve. This can cause it to build pressure in the lower boom lower and upper boom raise pilot lines, keeping the spools shifted. The root cause is not a

defective component. Affected units have an increased susceptibility to high tank pressure when the hydraulic oil is very cold.

Identification of Any Warning that can Occur : A rattling sound could be heard from the ground or in the platform when backpressure is high. A preoperational inspection with not identify the potential for high back pressure in the pilot lines.

Involved Components :

Component Name 1 : Hose assembly, .31 IN ID, 11.25 IN L, 100R7

Component Description : Tank return line - at upper control valve

Component Part Number : 970130019

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

In January of 2021, a customer reported an unintended boom movement event and described a rattling sound that was heard before the unintended motion occurred. After receiving the report, Altec began investigating the cause of the unintended motion and the source of the sound described by the customer. Operational testing created a situation where the sound was identified and the overcenter blocking valve was determined to be the source. Continued testing in cold weather revealed high boomtip tank pressure was activating and back feeding the overcenter blocking valve, causing unintended movement. A defect was declared on May 28, 2021.

Description of Remedy :

Description of Remedy Program : Altec will issue CSN 823 to owners of the affected units requiring owners to install a jumper hose and check valve between the two existing boom tip tank lines. The remedy will also replace the over-center blocking cartridge with an internally referenced drain path to be installed within 120 days from the receipt of this CSN or before the unit is used in cold weather conditions, whichever comes first.

How Remedy Component Differs from Recalled Component : The remedy provides 2 tank paths for the overcenter blocking valve to drain and a new cartridge.

Identify How/When Recall Condition was Corrected in Production : June 1, 2021 a connection was added to connect larger tank lines together at the boomtip, and a new revision to the blocking valve design was implemented.

Recall Schedule :

Description of Recall Schedule : Altec will issue CSN 823 to owners of the affected units. Altec does not have a dealer network and issues letters to owners only.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : JUL 29, 2021 - JUL 30, 2021

* NR - Not Reported