

Part 573 Safety Recall Report

24V-866

Manufacturer Name : Trail King Industries, Inc.**Submission Date :** NOV 18, 2024**NHTSA Recall No. :** 24V-866**Manufacturer Recall No. :** TK202402**Manufacturer Information :****Manufacturer Name :** Trail King Industries, Inc.**Address :** PO BOX 1064

Mitchell SD 57301

Company phone : 999**Population :****Number of potentially involved :** 396**Estimated percentage with defect :** 100 %**Vehicle Information :****Vehicle 1 :** 2020-2024 Trail King TKHT Hydraulic Tail Trailer**Vehicle Type :** TRAILERS**Body Style :****Power Train :** NR

Descriptive Information : The TKHT hydraulic tail trailer manufactured by Trail King Industries, Inc. The recall population includes all vehicles of this model from the start of production until the addition of the reinforced supports.

Production Dates : JUL 01, 2020 - SEP 01, 2024**VIN Range 1 : Begin :**

NR

End : NR☐ Not sequential**Description of Defect :**

Description of the Defect : The suspension assembly could flex the subframe beam allowing the beam to fatigue which, over time, may compromise the subframe beam, allowing it to crack.

FMVSS 1 : NR**FMVSS 2 :** NR

Description of the Safety Risk : If cracks in the subframe beam develop and are not addressed, the cracks could propagate, weakening the subframe beam, and causing the suspension support channel or the suspension to separate from the beam, increasing the risk of a crash.

Description of the Cause : Insufficient reinforcement above the suspension hanger mount may not allow for adequate strength.

Identification of Any Warning that can Occur : Small cracks on the top of the bottom flange above the suspension hanger mount may be visible. The suspension c-channel may also show cracking.

Involved Components :

Component Name 1 : Subframe Beam

Component Description : The beam that the suspension mounts to.

Component Part Number : n/a

Supplier Identification :

Component Manufacturer

Name : Trail King Ind.

Address : 300 E Norway Ave
Mitchell South Dakota 57301

Country : United States

Chronology :

In July 2020, Trail King began production of a newly redesigned hydraulic tail (HT) trailer. On March 29, 2024, Trail King was notified by a customer of a failure in the suspension frame area on a vehicle that had been in service for several years. During Trail King’s inspection of the vehicle, it was found that the suspension support cross member was missing. It was determined that the missing support cross member was most likely due to the suspension striking an object on the road and causing the suspension support cross member to become damaged. On August 19, 2024, Trail King was informed of another failure of the suspension frame on another vehicle owned by the same customer. Trail King conducted another vehicle inspection and the review again showed that the suspension support crossmember was missing and also appeared to have been struck by something causing it to fall off. Trail King initiated a broader investigation into the issue. The investigation revealed that for the same customer in various geographical locations, cracks were found in the suspension frame of some units but the support crossmember was intact and undamaged, with no visible cracks. A design change was implemented in September 2024 to reinforce the area in question. While Trail King had not received reports of any issues related to cracking or failure of the suspension frame from other customers, following this observation, Trail King expanded its investigation to inspect some HT trailers with other customers which found cracks present in the suspension frame, but with the support cross member undamaged. On November 12, 2024, Trail King decided to conduct a recall to address this issue.

Description of Remedy :

Description of Remedy Program : Trail King will add reinforcements to the web above the suspension hanger mounts and a larger reinforcement plate to the front of the suspension hangers on all affected trailers free of charge.

How Remedy Component Differs : The reinforcement supports the suspension hangers and will reduce the flex and fatigue of the concerned area. The reinforcements are an added

from Recalled Component : component that is easily visible after installation.

Identify How/When Recall Condition was Corrected in Production : All trailers produced beginning in September 2024 had an updated design with added reinforcements that corrected the issue.

Recall Schedule :

Description of Recall Schedule : We will start mailing notifications on 11/25/2024.

Planned Dealer Notification Date : NOV 25, 2024 - DEC 31, 2024

Planned Owner Notification Date : NOV 25, 2024 - DEC 31, 2024

* NR - Not Reported