

Part 573 Safety Recall Report

22V-472

Manufacturer Name : Silver Eagle Manufacturing Company**Submission Date :** JUL 14, 2022**NHTSA Recall No. :** 22V-472**Manufacturer Recall No. :** NR**Manufacturer Information :****Population :****Manufacturer Name :** Silver Eagle Manufacturing Company**Number of potentially involved :** 146**Address :** 5825 NE Skyport Way
Portland OR 97218-1249**Estimated percentage with defect :** 100 %**Company phone :** 800-547-6792**Vehicle Information :****Vehicle 1 :** 2021-2021 Silver Eagle VAST20W**Vehicle Type :** TRAILERS**Body Style :** OTHER**Power Train :** NR

Descriptive Information : A customer sent pictures of their galvanized trailer converter dolly with the center section of their Ballast Hanger (Counterweight) missing. Shortly afterward they found a second unit with one side broken but nothing was missing. We received the two different hangers plus an unbroken one for analysis.

Through metallurgical work, and review of metal certifications, it was determined that we had received a substitute material (different from what was ordered. This metal was susceptible to hydrogen embrittlement during the picking and galvanizing process. Ungalvanized ballast hangers from this material are not embrittled and have proper mechanical strength.

There are 146 galvanized ballast hangers that were produced and need to be replaced. 17 of these were for parts orders for the same customer. There are a total of 5 customers with ballast hangers that need to be replaced. All Trailer Converter Dollies are Model VAST, model year 2021. The parts orders may have been put on different model years, or still in the customers inventory.

Production Dates : AUG 10, 2020 - MAR 29, 2021**VIN Range 1 : Begin :** 1U3JX101XMBL21110 **End :** 1U3JX1013MBJ21301☒ Not sequential**Description of Defect :**

Description of the Defect : The ballast hanger near the rear of the frame may have a brittle failure causing part of the ballast hanger and its counterweights to fall onto the highway.

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

Description of the Safety Risk : If the galvanized steel ballast hanger breaks in service, and allows part of it

Description of the Safety Risk : and the associated ballast weights to fall onto the highway, another vehicle may hit it or swerve to miss the broken parts. Depending on the configuration of the dolly, the broken section, plus ballast weights, could range from 100 to 225 lbs. The trailer converter dolly can operate safely even without the ballast hanger. The fallen part may also affect the trailer the converter dolly is towing if the fallen part damages it.

Description of the Cause : Embrittlement of AISI 1018 steel through the pickling and galvanizing process. Material was supposed to be ASTM A572-50.

Identification of Any Warning that can Occur : The galvanized ballast hanger may show cracking in the bended section where failures have occurred. A visual inspection of the ballast hanger can be readily performed with the naked eye.

Involved Components :

Component Name 1 : Ballast Hanger

Component Description : HANGER, BALLAST, 61#, UNDER TANK, VAIL, GALV

Component Part Number : 18781G

Supplier Identification :

Component Manufacturer

Name : Silver Eagle Manufacturing Company

Address : 5825 NE Skyport Way
Portland Oregon 97218

Country : United States

Chronology :

April 8, 2022 Southeastern Freightlines informed us they had discovered a trailer Converter dolly with the missing section of the ballast hanger and its counterweight. Silver Eagle sent replacement parts and asked for the failed part to be sent back for analysis.

April 11, 2022 Southeastern Freightlines discovered a second ballast hanger with failure on just one side. No parts were missing or had fallen onto the road. This hanger was removed and sent to Silver Eagle for inspection. Additionally, Silver Eagle asked for an unbroken ballast hanger for analysis from the same build of galvanized trailer converter dollies.

April 11, 2022 Silver Eagle begins internal review of material and processes as possible causes while waiting for failed components to arrive for analysis.

April 13, 2022 failed parts arrive from customer; they appear to have brittle failures. Silver Eagle performs an

internal flattening test to test galvanized ballast hangers in inventory. The part from inventory passes. April 14, 2022 consulting engineers are contacted for quotes and availability to conduct analysis of the failed parts. Lisin Metallurgical Services is chosen for analysis and metallurgy testing. June 17, 2022 final report is received by Lisin Metallurgical. Reports suggest embrittled material and fatigue failure. June 24, Silver Eagle determines this to be a safety concern from the batch of parts made from 1018 steel and begins to perform process to specifically identify ballast hangers made from this material and then galvanized.

Description of Remedy :

Description of Remedy Program :	Silver Eagle will pay for parts, freight and labor to replace potential defective parts.
How Remedy Component Differs from Recalled Component :	Each ballast hanger will have "CAMPAIGNED" on each side for easy visual inspection.
Identify How/When Recall Condition was Corrected in Production :	As of 3-29-2021 all the 1018 steel had been consumed and other production of ballast hangers had resumed using the proper material – A572-50.

Recall Schedule :

Description of Recall Schedule :	Curtesy notifications have begun and official notification will commence after NHTSA approval of notification letter.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	JUL 01, 2022 - JUL 22, 2022

* NR - Not Reported