

# Stewart & Stevenson - Bellhousing Repair

ID: 9225

Industry: *Transport*

Customer Location: *Orlando, Florida*

Application: *ENC-Engines and Casings*

Application Date: *January 2024*

Substrate: *Aluminum*

Products: *Belzona 1161 (Super UW-Metal), Belzona 9111 (Cleaner Degreaser)*

## Problem

*Due to inadequate maintenance; a sudden and unexpected disassembly of the universal joint and driveshaft occurred, causing significant damage to a portion of the transfer case bellhousing and affecting the performance of the oil seal.*



Stewart & Stevenson M1078 LMTV

Are that broken driveshaft and u-joint impacted the case. This are is where the seal is installed.

The original seal was inserted and used as former to fill the damaged site. This will cast a wall for the new seal to properly preform.

A final wrap was done to create hoop strength, ensuring that any impacts, vibration or movement will not compromise the repair.

## Application Situation

Both cost and availability posed challenges for a full replacement. The owner sought a cost-effective and swift repair method to quickly return the equipment to service.

## Application Method

The repair was conducted using a customized approach based on Belzona System Leaflet ENC-01. Debris and grease were eliminated, and the surface was prepared using the MBX Bristle Blaster, followed by cleaning with Belzona 9111. The oil seal served as a former to fill the missing section of the bellhousing with Belzona 1161. Lastly, the repair was finalized by applying Belzona 9341 wrap impregnated with Belzona 1161 around the bellhousing.

## Belzona Facts

The Belzona repair resulted in substantial cost savings for the owner, amounting to thousands of dollars. Thanks to the user-friendly nature of Belzona materials, which require no special tools or training, the owner was able to undertake the repair independently. This not only instilled confidence in the owner that the repair was executed correctly but also ensured its long-term durability.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

[www.belzona.com](http://www.belzona.com)

