Part 573 Safety Recall Report

15E-005

Manufacturer Name : Dana Driveshaft Manufacturing, LLC
Submission Date : FEB 05,2015
NHTSA Recall No. : 15E-005
Manufacturer Recall No. : NR

Manufacturer Information :

Manufacturer Name : Dana Driveshaft Manufacturing, LLC
Address : 3939 Technology Drive
Maumee OH 43537
Company phone : 419-887-3000

Population :

Number of potentially involved : 127
Estimated percentage with defect : 100

Equipment Information :

Brand / Trade : Dana - Spicer
Model : Commercial Vehicle Lightweight Driveshaft SPL250
Part No. : See descriptive info
Size : 1610-2200 or 2220-2830
Function : driveshaft
Descriptive Information : Dana – Spicer Commercial Vehicle Lightweight Driveshaft SPL250

250DS55031C-XXXXM (various lengths in XXXX ranging from 1610-2200)
5018628-XXXXM
250DS55032C-XXXXM (various lengths in XXXX ranging from 2220-2830)
5018629-XXXXM

Production Dates : JAN 02, 2013 - JUN 30, 2013

Description of Defect :

Description of the Defect : In affected driveshafts, the weld may degrade as a result of flexing of the driveshaft components and galvanic corrosion. If the weld degrades to the point where its bond to the rear yoke may fail, it can lead to slippage between the driveshaft and yoke and, potentially, to loss of torque to the rear wheels.

Description of the Safety Risk : f the welded bond fails and results in loss of torque to the rear wheels, the vehicle operator may be unable to move the vehicle, or may experience deceleration if the vehicle is in motion.

Description of the Cause : The corrosion barrier between the tube and the end yokes may not be sufficiently robust over the long term. In addition, the interface between the rear yoke and tube can undergo flexing (otherwise known as “breathing”) at the interface of the components, causing stress on the weld and potentially allowing a path for corrosive materials should the barrier fail.

Identification of Any Warning that can Occur : The vehicle operator may notice deceleration, or may be unable to move the vehicle.

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

FOREIGN STATES

Country : NR

Chronology :

Dana conducted a recall of approximately 18 units in late 2014 (14E050) due to a weld bond failure issue. In the course of conducting that corrective action, Dana continued to investigate and gather additional information, and identified a separate potential issue worthy of analysis— specifically, the potential for weld degradation as a result of galvanic corrosion.

On December 1, 2014, Dana submitted a supplemental information letter related to 14E050 (Transaction ID 14-0015621-15837-11) outlining this potential issue and its plans to investigate.

Although Dana did not receive any field reports of weld degradation issues, Dana concluded after completing this investigation in January 2015 that it would perform corrective action out of an abundance of caution due to concern for long-term weld resilience.

On January 21, 2015, Dana contacted Ms. Sarah McShane (NHTSA Safety Recall Analyst) via voice message to inform NHTSA of the Dana Driveshaft's determination and plan to conduct a corrective campaign on the subject 127 units.

On January 30, 2015, Dana submitted the above information as an amended report to the 14E050 recall. This report was entered as a miscellaneous document in the NHTSA system. As an administrative correction, Dana now resubmits the information here as a new, rather than amended, 573 report.

Description of Remedy :

Description of Remedy Program : Dana will provide a return and replacement program for all affected field units. Free replacement units will be provided.

How Remedy Component Differs from Recalled Component : The revised units will be provided with a new metalized corrosion barrier that has passed inspection, and a revised yoke tube with a welded plug that significantly reduces the "breathing" mode and stresses on the weld.

Identify How/When Recall Condition was Corrected in Production : Dana's engineering and manufacturing teams worked to improve the weld bond's corrosion resistance and stress profile with the design changes.

Recall Schedule :

Description of Recall Schedule : Dana's notification campaign is being developed and will be reviewed with NHTSA.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : NR
Address : NR
NR
Country : NR
Company Phone : NR

* NR - Not Reported