Manufacturer Name :Ford Motor CompanySubmission Date :AUG 04, 2021NHTSA Recall No. :21V-536Manufacturer Recall No. :21S31

Manufacturer Information :

Manufacturer Name : Ford Motor Company Address : 330 Town Center Drive Suite 500 Dearborn MI 48126-2738 Company phone : 1-866-436-7332

Population :

Number of potentially involved : 27,604 Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1:	2020-2021 Ford F-350	Super Duty Pickup	
Vehicle Type :	LIGHT VEHICLES		
Body Style :	PICKUP TRUCK		
Power Train :	DIESEL		
Descriptive Information :	Ford's team reviewed p	plant records to determine th	ne population of affected vehicles.
	The recalled part was in of production on 05/15 equipped with the 6.7L	ntroduced into production o 5/2021. The affected vehicle diesel engine and the Dana 1	n 08/06/2020 and was taken out es are F-350 SRW pickup trucks Model 275 rear axle.
	These vehicles are not this action to specific ve line (1-866-436-7332) specific information re Information System (O	produced in VIN order. Infor ehicles can best be obtained or by contacting a local Ford garding the vehicles from the ASIS) database.	rmation as to the applicability of by either calling Ford's toll-free l or Lincoln dealer who can obtain e Ford On-line Automotive Service
Production Dates :	AUG 06, 2020 - MAY 15	2021	
VIN Range 1:	Begin : NR	End: NR	☐ Not sequential
Description of Defect : Description of the Defe	ct : Reduced axle tube v two spring seat atta the design load caps applications. Comp seat attachment loo in driveshaft separa	wall thickness in the spring s ichment side weld locations, acity requirements for the F- romised welds may cause ax isen, the rear axle may shift r ation from the rear axle.	eat area, in combination with may be insufficient to support 350 SRW 6.7L diesel pickup de lube leak. Should the spring rearward, potentially resulting
FMVSS	1: NR		
l ne ii	atormation contained in this	s report was submitted pursuant	10 49 UFK 95/3



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Part 573 Safety	Recall Report
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FMVSS 2	: NR
Description of the Safety Risk Description of the Cause	 In the event of driveshaft disconnection, customers may experience loss of motive power while driving and loss of transmission park function if the parking brake is not applied, increasing the risk of a crash. An improperly validated axle design change by the supplier
Identification of Any Warnin	g Customer may experience vibration and/or shaking while driving at highway
that can Occur	: speeds, and/or shuddering upon acceleration.
Involved Components :	
Component Name 1:	Caliper Bolts
Component Description :	NR
Component Part Number :	HC3Z-00812-B
Component Name 2:	Collapsible Spacer
Component Description :	NR
Component Part Number :	HC3Z-4662-C
Component Name 3:	Head bearing cone
Component Description :	NR
Component Part Number :	HC3Z-4630-A
Component Name 4 ·	Head bearing cup
Component Description :	NR
Component Part Number :	HC3Z-4628-A
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Component Name 5.	Housing (FLD)
Component Description :	NR
Component Part Number	НС37-4010-Н
component i art traniber .	

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Component Name 6 :	
component Name 0.	Housing (STD)
Component Description :	NR
Component Part Number :	HC3Z-4010-G
Component Name 7:	Hub seal
Component Description :	NR
Component Part Number :	HC3Z-1S175-A
Component Name 8 :	Lube
Component Description :	NR
Component Part Number :	XY-75W140-QL
Component Name 9:	Pinion Flange Bolts
Component Description :	NR
Component Part Number :	F1HZ-4N272-A
Component Name 10:	Pinion Flange Straps
Component Description :	NR
Component Part Number :	E4HZ-4A254-A
Component Name 11:	Pinion Nut
Component Description :	NR
Component Part Number :	HC3Z-00811-A
Component Name 12 :	Pinion Nut Washer
Component Description :	NR
Component Part Number :	HC3Z-383609-A

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Component Name 13 :	Pinion Seal
Component Description :	NR
Component Part Number :	HC3Z-4676-A
Component Name 14 ·	Pinion bearing shim
Component Description :	NP
Component Part Number :	LC37 4663 A
component i art Number .	LC32-4003-A
Component Name 15 :	Pinion deflector
Component Description :	NR
Component Part Number :	HC3Z-00810-A
Component Name 16 ·	RTV
Component Description :	NR
Component Part Number :	TA 20
component i art Number .	18-20
Component Name 17:	Shaft bolt
Component Description :	NR
Component Part Number :	HC3Z-00813-A
Component Name 18 ·	Shaft o-ring
Component Description	NR
Component Dest Number	F817 1001 AA
component Part Number :	F012-1001-AA
Component Name 19:	Shock Bolts
Component Description :	NR
Component Part Number :	W500764-S439

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Component Name 20 :	Shock Nuts
Component Description :	NR
Component Part Number :	W520115-S440
Comment No. 01	
Component Name 21:	Sway Bar Bracket Bolts
Component Description :	NR
Component Part Number :	W500634-S439
Component Name 22 :	Tail bearing cone
Component Description :	NR
Component Part Number :	HC3Z-4561-B
Component Name 23 :	Tail bearing cup
Component Description :	ND
Component Description .	
Component Part Number :	HC3Z-4010-A
Component Name 24 :	U Bolt Nuts
Component Description :	NR
Component Part Number :	N620485-S441
Component Name 25 :	U Bolts
Component Description :	NR
Component Part Number :	HC3Z 5705 E
Supplier Identification :	

Component Manufacturer

Name : Dana International Address : 3939 Technology Drive Maumee Ohio 43537

Country: United States

Chronology :

On May 13th, 2021, an issue pertaining to rear axle housing deformation on certain F-350 pickup trucks was brought to Ford's Critical Concerns Review Group (CCRG) for review. Twelve reports from January through May, 2021, were received alleging rear axle tube deformation and corresponding weld separation at the spring seat interface on certain 2020-2021 Super Duty SRW trucks with the 6.7L engine and the Dana Model 275 rear axle. Four of these reports involved driveshaft disconnection from the rear axle.

Review of supplier records found that a design change that reduced the axle wall thickness in the spring seat area had been incorporated for the Model 275 rear axle beginning August 6, 2020.

Axle torsional impactor component testing and vehicle level testing was conducted and reproduced the field concerns. Further analysis found that the 6.7L F350 SRW pickup vehicle configuration is uniquely susceptible to subsequent axle deformation based on the higher torsional impact loading and GCWR associated with the F350 diesel engine variant. Analysis has found that other vehicle configurations equipped with this axle are not susceptible to tube deformation based on lower engine torque output and/or lower payload and towing capacity.

On July 8th, 2021, Ford's Field Review Committee reviewed the concern and approved a field action.

Ford is not aware of any reports of accident or injury related to this condition.

Description of Remedy :

Description of Remedy Program :	Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have Dealers inspect rear axle to determine if deformation is present. If the axle housing is deformed, the housing will be replaced. If the axle housing is not deformed, the dealer will perform a weld repair on the spring seats. There will be no charge for this service.
	Ford is excluding reimbursement for costs because the original warranty program would provide for a free repair for this concern.
	Ford will forward a copy of the notification letters to dealers to the agency when available.
How Remedy Component Differs from Recalled Component :	If the customer's axle housing is found deformed, the axle housing will be replaced with one that has a constant wall thickness, vs the recalled variable wall thickness housing. Remedy housing service part numbers: HC3Z-4010-G (STD), HC3Z-4010-H (ELD) If customer's axle housing is found not deformed, additional welding to each spring seat at the axle housing in all areas without existing weld will
The information contained in this report was submitted pursuant to 49 CFR §573	

	he performed and the ayle will be reinstalled
Identify How/When Recall Condition was Corrected in Production :	be performed and the axle will be reinstalled. Corrective actions were implemented on May 15th, 2021 at the vehicle assembly facility. Existing rear axle housing stock was corrected via weld repair on the spring seats. New rear axle housing stock with an increased wall thickness design at the spring seats were introduced as the permenant corrective action.

Recall Schedule :

Description of Recall Schedule :	Notification to dealers is expected to occur on $07/16/2021$. Mailing of
	owner notification letters is expected to begin 08/16/2021 and is
	expected to be completed by 09/07/2021.
Planned Dealer Notification Date :	JUL 16, 2021 - AUG 31, 2021
Planned Owner Notification Date :	AUG 16, 2021 - SEP 07, 2021

* NR - Not Reported