



U.S. Department of Transportation
**National Highway Traffic Safety
Administration**

1200 New Jersey Avenue SE
Washington, DC 20590

February 14, 2024

Mr. Scott Paxton
ZF North America, Inc.
12001 Tech Center Drive
Livonia, MI 48150

NEF-107KL
24E-011

Subject: Inversion Valve Failure/FMVSS 121

Dear Mr. Paxton:

This letter serves to acknowledge ZF North America, Inc.'s notification to the National Highway Traffic Safety Administration (NHTSA) of a safety recall which will be conducted pursuant to Federal law for the product(s) listed below. Please review the following information to ensure that it conforms to your records as this information is being made available to the public. If the information does not agree with your records, please contact us immediately to discuss your concerns.

Makes/Models/Model Years:

HALDEX/INVERSION RELAY VALVE/9999

Mfr's Report Date: February 9, 2024

NHTSA Campaign Number: 24E-011

Components:

SERVICE BRAKES, AIR

Potential Number of Units Affected: 2,493

Problem Description:

ZF North America, Inc. (ZF) is recalling certain park brake actuation air brake systems equipped with Haldex inversion relay valves, part numbers 9718990020 and RKN28032. An internal piston in the inversion valve may fail, delaying the engagement of the parking brake. As such, these valves fail to comply with the requirements of Federal Motor Vehicle Safety Standard number 121, "Air Brake Systems."

Consequence:

Delayed parking brake engagement can result in unintended vehicle movement, increasing the risk of a crash.

Remedy:

ZF will replace aftermarket equipment, free of charge. Affected vehicle manufacturers will determine the appropriate remedy for their vehicles. Owners may contact ZF customer service at 1-734-416-6200.

Notes:

Owners may also contact the National Highway Traffic Safety Administration Vehicle Safety Hotline at 1-888-327-4236 (TTY 1-800-424-9153), or go to www.safercar.gov.

Please ensure the following requirements are met:

Your company must supply the estimated date(s) for which it will notify owners regarding this safety recall. Please be reminded that all owners must be notified of the safety risk associated with this filing within 60 days of the 573 being submitted. If the remedy is not available at that time, mail the interim notice, following it with a second notice once the remedy becomes available. If your company subsequently becomes aware that either the beginning or the completion dates reported to the agency for any of the notifications will be delayed by more than two weeks, your company shall promptly advise the agency of the delay and the reasons therefor, and furnish a revised estimate. If there are no owners involved in this recall, please state so in the 573 (49 CFR 573.6 (c)(8)(ii)).

AMENDED 573 REQUIRED.

You are required to submit a draft owner notification letter to this office no less than five days prior to mailing it to the customers. Also, copies of all notices, bulletins, dealer notifications, and other communications that relate to this recall, including a copy of the final owner notification letter and any subsequent owner follow-up notification letter(s), are required to be submitted to this office no later than 5 days after they are originally sent (if they are sent to more than one manufacturer, distributor, dealer, or purchaser/owner). You are required to submit a draft owner notification letter to this office no less than five days prior to mailing it to the customers. Also, copies of all notices, bulletins, dealer notifications, and other communications that relate to this recall, including a copy of the final owner notification letter and any subsequent owner follow-up notification letter(s), are required to be submitted to this office no later than 5 days after they are originally sent (if they are sent to more than one manufacturer, distributor, dealer, or purchaser/owner).

Under 49 U.S.C. § 30112(a), it is illegal for anyone, including a manufacturer, distributor, dealer, or retailer to sell an item of equipment or vehicle that fails to comply with all applicable Federal motor vehicle safety standards.

As stated in 49 U.S.C. § 30118(f), submission of eight consecutive quarterly reports followed by three annual reports is required. As described in 573.7, submission of the first of eight consecutive quarterly status reports is required within one month after the close of the calendar quarter in which notification to purchasers occurs. Therefore, the first quarterly report will be due on, or before, 30 days after the close of the calendar quarter. The first of three consecutive annual status reports will be due on, or before, 1 year after the eighth quarterly report was submitted.

ZF North America, Inc.'s contact for this recall will be Kristin Lepper who may be reached by email at kristin.lepper@dot.gov. We look forward to working with you.

Sincerely,



Alex Ansley
Chief, Recall Management Division
Office of Defects Investigation
Enforcement