VOLVO

Volvo Trucks North America, Inc.

RECEIVED
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OFFICE
DEFECTS INVESTIGATION

February 21, 2000

CERTIFIED MAIL - RETURN RECEIPT

OOV-002.002 (01)

Associate Administrator for Enforcement
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, DC 20590

The following information is submitted in accordance with the requirements of 49 CFR Part 573.5 as it applies to a defect relating to motor vehicle safety.

573.5(c)(1)
Volvo Trucks North America, Inc.
P.O. Box 26115
Greensboro, NC 27402-6115

573.5(c)(2)
Volvo ACL, VN, WAH, WCA, WIA, WG, and WX model, heavy duty class 8 vehicles assembled by Volvo Trucks North America, Inc. between June 4, 1997 and February 28, 1998, with a Haldex Parking/Trailer Supply Brake Valve (air brake manifold dash valve).

The vehicles affected by this notification were selected by using the part number of the suspect parts, which were supplied to Volvo Trucks North America, by Haldex Brake Systems.

Haldex Brake Systems
10930 North Pomona Avenue
Kansas City, MO 64153
Mr. Don Myers Telephone: (816) 801-2641

573.5(c)(3)
Thirteen thousand, five hundred, and sixteen (13,516) vehicles potentially contain the suspect defect.

573.5(c)(4)
Percentage of vehicles expected to contain the suspect defect is unknown.

VOLVO

573.5(c)(5)
The disc operating as a double check valve incorporated into the air brake manifold dash valve becomes brittle over time and cracks. This crack does not permit the double check valve from protecting either the primary or the secondary air system pressure in the event of a single point failure of one of the two systems. The failure of the disc can result in the loss of all service braking when there is another failure in the air system.

573.5(c)(6)

1-18-00	Volvo Trucks North America, Inc. received notification from Haldex Brake Systems that they were recalling certain brake manifold dash valves because the double check valve disc may crack. See attached Exhibit "A".
2-16-00	Volvo Trucks North America, Inc. decided that some of its vehicles were built with the suspect valves and will conduct the recall on behalf of Haldex Brake Systems.

573.5(c)(7)
Not applicable

573.5(c)(8)
Volvo Trucks North America, Inc. will initiate a voluntary owner notification, and recall of all vehicles built with the suspect air brake manifold dash valves.
The recall repair will consist of replacing the suspect valves.

The number, which has been assigned to this recall by Volvo Trucks North America, Inc., is **RVXX0002.**

The recall is tentatively scheduled to commence within 35 working days of this notification.

Very Truly Yours

C. D. Powell

Charles D. Powell
Recall Administrator

OOV-002.002 (03)

SHIPPING REQUEST FORM

EXHIBIT A

HALDEX BRAKE SYSTEMS
10930 North Pomona Avenue
Kansas City, MO 64153

LEGAL DEPT.
JAN 18 2000

TO: Attention: Mr. Charles Powell
Company Name: Volvo Trucks,NA, Inc.
Company Address: * 7825National Service Road
Company Address:
City, State, Postal Code: Greensboro, NC 27402
Area Code / Telephone:

*Must be street address - Not a PO Box

Check appropriate service:
- ☐ UPS
- ☒ Federal Express
- ☐ Other _____
- ☐
- ☐

- ☐ Same day service (local only)
- ☐ Standard ground service
- ☒ Second day
- ☐ Next day air
- ☐ Saturday delivery

(International delivery -- complete bottom portion)

Prepaid: ☒ Collect: ☐ Third Party: ☐ Account number to be billed: 715801
Estimated value: $ _____ (Packages automatically insured - UPS/100; Fed Ex/$__)
Description: Recall Notice

FROM: Name: Don Myers
Department Name: 1340
Extension: 2641 Date: 01-14-00
Business: xxx Personal: _____ Cost: * $ _____

*To be completed by shipping

INTERNATIONAL SHIPMENTS

Indicate the number of days required for delivery completion and shipping clerk will select best shipping company for that delivery point.

Delivery desired:
- ☐ Within three to four days
- ☐ Within five to seven days
- ☐ Within eight to twelve days

A detailed description of package contents is required if package is leaving the USA. Be exact in description of contents & shipping clerk will convert to proper language for international shipping.

Description _____

HBS 102 (Rev. 06/99)

Haldex
Brake Systems

EXHIBIT A

Jan. 14, 2000

To: Mr. Charles Powell
Volvo Trucks, NA, Inc..
7825 National Service Road
Greensboro, NC 27402

OOV-002.002 (69)

Dear Haldex Customer,

This notice is being sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Haldex Brake Systems has defined that it's MDV Manifold Dash Valve is non compliant to the requirements of FMVSS 121. This valve controls the emergency and parking brakes on the tractor and trailer. This non compliance involves the loss of the isolation of the two brake system circuits and can result in the loss of the service brakes when there is another failure of one of the two brake circuits. This non compliance affects all MDV Manifold Dash Control Valves manufactured and sold by **Midland Brake, Inc**. between June 1, 1997 and Dec. 31, 1997. Haldex Brake Systems purchased the assets of Midland Brake, Inc. In Apr. 1998 and is conducting the recall on the Midland Manifold Dash Valve.

REASON FOR THIS RECALL:

The double check valve incorporated into the Manifold Dash Valve becomes brittle over time and cracks. This crack does not permit the double check valve from protecting either the primary or the secondary system pressures in the event of a single point failure of one of the two circuits. The failure of this double check valve can result in the loss of all service braking when there is another failure in the system.

WHAT HALDEX WILL DO:

Haldex Brake Systems will supply a replacement valve to you. This valve will be furnished at **NO CHARGE TO YOU.** Haldex will pay the freight for the replacement material and replacement labor at a total of $75 per valve. Haldex will further reimburse Volvo for all reasonable administrative costs associated with the recall of these parts. These valves will be available starting Feb. 3, 2000 and can be obtained by completing the attached **REPLACEMENT REQUEST** form or by contacting Haldex Brake Systems at the number shown below.

If any of the suspect valves are still in your stock, Haldex will reimburse you for these at their purchase price. Please contact Haldex Customer Service for a Return Goods Authorization (RGA) number to return these valves.

Haldex is requesting that the old valves be destroyed at the point of replacement.

WHAT YOU SHOULD DO:

Haldex recommends that you replace all suspect parts received from Midland Brake between June 1, 1997 and Dec.31, 1997.

The replacement of the valve will require that the Manifold Dash Valve be removed from the dash (or control console). Haldex Brake Systems does not have service facilities or service

Haldex Brake Products Corporation

North American Headquarters
10930 North Pomona Avenue
Kansas City, Missouri 64153-1297

Phone: (816) 891-2470
Fax: (816) 891-9447

Haldex

Brake Systems

OOV-002.002 (05)

technicians and as such the replacement of the valve assembly will need to be completed by the customer. It is estimated that the modification will require 1to 1 1/2 hours to complete.

Haldex has provided a listing of the part number (s) and quantities of the units we show as having been shipped to you during the suspect time period to assist you in determining where these units may have been used. **If you are a vehicle manufacturer or a distributor and you want Haldex to send notification to your customers, please supply Haldex with a listing of the names and addresses of the people / companies who purchased these valves between June 1, 1997 and Dec. 31, 1998 and we will send the notice to them.**

Haldex would appreciate a response indicating the action that you are taking on his issue. If you have any questions concerning the details of this recall or the remedy, you may contact Haldex Brake Systems at 816-801-2641. The contact for replacement parts is 316-365-6911. Ask for "Customer Service" between the hours of 7 a.m. and 7 p.m. Central time Monday through Friday. You my also wish to contact the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street S.W., Washington, DC 20590 or call 1-800-424-9393 (Washington, DC residents may call 202-366-0123).

Haldex apologizes for any inconvenience in this matter. We have taken this action in the interest of your safety and continued satisfaction with our product.

Sincerely,

Donald Myers
Group Director, Quality Assurance
Haldex Brake Systems
10930 N Pomona Ave.
Kansas City, MO 64153
Phone 816-801-2641
Fax 816-891-9432