



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

# ODI RESUME

**Investigation:** PE 21-018  
**Date Opened:** 07/16/2021  
**Investigator:** Nate Seymour **Reviewer:** Joshua Neff  
**Approver:** Stephen Ridella  
**Subject:** Haldex Brake Chamber Failures

## MANUFACTURER & PRODUCT INFORMATION

**Manufacturer:** Haldex Commercial Vehicle Systems  
**Products:** 2015-2020 Haldex Gold Seal 30/30 Long Stroke Brake Chambers  
**Population:** 500,000 (Estimated)  
**Problem Description:** The power spring fractures, puncturing the diaphragm causing air loss within the spring-brake circuit, resulting in brake drag without sufficient warning to the driver.

## FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
<b>Complaints:</b>	11	TBD	TBD
<b>Crashes/Fires:</b>	7	TBD	TBD
<b>Injury Incidents:</b>	0	TBD	TBD
<b>Number of Injuries:</b>	0	TBD	TBD
<b>Fatality Incidents:</b>	0	TBD	TBD
<b>Number of Fatalities:</b>	0	TBD	TBD
<b>Other*:</b>	3	Confidential	Confidential

\*Description of Other: Field Reports containing multiple VINs.

## ACTION / SUMMARY INFORMATION

**Action:** A Preliminary Evaluation has been opened.

### Summary:

The Office of Defects Investigation (ODI) has opened this Preliminary Evaluation (PE) on Haldex Gold Seal GC3030LCW air brake chambers installed in model year (MY) 2015-2020 vehicles based on allegations of air loss resulting in vehicle fires.

ODI is aware of eleven (11) Vehicle Owner Questionnaires (VOQs) that allege, without discernable warning to the driver, the failure of a Haldex brake chamber. Seven (7) of those cases involved thermal events causing extensive fire damage to the vehicle and, in some cases, the cargo too. In at least one of the fires, a fire investigation report identified a wheel end fire as the origin. Analysis of other failed units found Haldex brake chamber diaphragms punctured by the power spring.

ODI discussed the VOQs with the complainants. Through these discussions, ODI learned that multiple fleets were having issues with numerous vehicles. ODI further learned that Haldex agreed to replace brake chambers on some of the vehicles in these fleets.

A Preliminary Evaluation has been opened to determine the frequency and scope of this failure.

The ODI reports cited above can be reviewed at:

<http://www-odi.nhtsa.dot.gov/owners/SearchNHTSAID>

using the following complaint identification numbers: 11110397, 11110394, 11184218, 11120375, 11110398, 11119976, 11110399, 11119975, 11120509, 11166776, and 11355468