



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

ODI RESUME

Investigation: EA25006
Prompted By: PE23010
Date Opened: 10/23/2025
Investigator: Andrew Brady **Reviewer:** Joshua Neff
Approver: Tanya Topka
Subject: Automatic Emergency Braking Errors

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Daimler Trucks North America, LLC
Products: 2017-2022 Freightliner Cascadia and 2017-2022 Western Star 5700
Population: 250,000 (Estimated)

Problem Description: The automatic emergency braking system on the subject vehicles may inaccurately identify an object and command the vehicle to stop unexpectedly, resulting in a hazard to other motorists.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	EWR D&I	Other	Total	EWR Field Reports
All Incidents:	32	345	0	0	347*	0
Crashes/Fires:	3	21	0	0	24	0
Injury Incidents:	2	11	0	0	13	0
Number of Injuries:	8	0	0	0	8	0
Fatality Incidents:	0	1	0	0	1	0
Number of Fatalities:	0	0	0	0	0	0

Description of Other:

*Total eliminates duplicates received by the manufacturer

ACTION/SUMMARY INFORMATION

Action: Open an Engineering Analysis (EA)

Summary:

On May 26, 2023, the Office of Defects Investigation (ODI) opened a Preliminary Evaluation (PE23010) to assess reports of false positive activation of the Automatic Emergency Braking (AEB) system in model year (MY) 2017-2022 Daimler Trucks North America (DTNA) vehicles. The reports alleged that activation of the AEB system occurred while driving with no apparent obstruction in the vehicle's forward path, resulting in sudden vehicle deceleration.

DTNA indicated that it received a total of 315 reports that may relate to the alleged defect in MY 2017-2022 DTNA vehicles. DTNA stated that the vast majority of false positive activation of the subject systems occur in very limited durations and result in a five mile per hour deceleration. ODI considered four AEB systems offered by DTNA: Detroit Assurance 2.0, Detroit Assurance 4.0, Detroit Assurance 5.0, and Wabco OnGuard. ODI's analysis shows that of the Detroit Assurance versions, all are failing at similar rates. The OnGuard AEB systems equipped on the same model and model year vehicles have experienced a significantly lower claim rate.

To date, ODI has received a total of 32 consumer complaints of inadvertent activation of AEB in MY 2017-2022 DTNA vehicles. In total, ODI reviewed 347 unique (i.e., non-duplicative Vehicle Identification Numbers) reports that may relate to the alleged defect, which include 24 reports involving a crash, 13 reports involving an alleged injury and one report with a fatality.

PE23010 has been upgraded to an Engineering Analysis to further assess the scope, frequency, and potential safety related consequences of the inadvertent AEB activations in MY 2017-2022 DTNA vehicles.

To review the ODI reports cited in the Opening Resume ODI Report Identification Number document, go to [NHTSA.gov](https://www.nhtsa.gov).