



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

ODI RESUME

Investigation: PE24014
Prompted By: VOQ Review
Date Opened: 05/09/2024
Investigator: Jacob Ebert **Reviewer:** Joshua Neff
Approver: Tanya Topka
Subject: Sogefi Secondary Diesel Fuel Filter Leak

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Ford Motor Company
Affected Manufacturers: Alleward Sogefi USA
Products: 2015-2021 F-250/350/450/550 SD
Population: 210,960 (Estimated)

Problem Description: Engine compartment diesel fuel leaks that may result in fires

FAILURE REPORT SUMMARY

	ODI	Manufacturer	EWR D&I	Other	Total	EWR Field Reports
All Incidents:	27	0	0	0	27	0
Crashes/Fires:	12	0	0	0	12	0
Injury Incidents:	3	0	0	0	0	0
Number of Injuries:	4	0	0	0	0	0
Fatality Incidents:	0	0	0	0	0	0
Number of Fatalities:	0	0	0	0	0	0

ACTION/SUMMARY INFORMATION

Action: Open Preliminary Evaluation

Summary:

The Office of Defect Investigations (ODI) has received 27 complaints alleging diesel fuel leaks due to a fracture in the secondary fuel filter housing in model year (MY) 2015-2021 Ford Motor Company (Ford) F-250, 350, 450, and 550 Super Duty vehicles equipped with 6.7L diesel engines. Of these complaints, 12 describe an engine compartment fire. The proximity of the secondary fuel filter to high heat sources creates a potential for autoignition thermal events and fires.

ODI has contacted the vehicle manufacturer, Ford, and the filter manufacturer, Allevard Sogefi USA (Sogefi), and learned that the low-pressure fuel system is capable of a maximum operating pressure of 8.5 Bar, while the secondary fuel filter is only tested to seven (7) Bar during the manufacturing process. Additionally, changes starting in 2022 by both Ford and Sogefi align with a lack of similar complaints on MY 2022 and newer vehicles.

ODI is opening this Preliminary Evaluation (PE) to evaluate the severity of the potential problem and to fully assess the potential safety-related problems. To review the ODI reports cited in the Opening Resume ODI Report Identification Number document, go to [NHTSA.gov](https://www.nhtsa.gov).