Part 573 Safety Recall Report

Manufacturer Name :	Prevost Car (US) Inc.
Submission Date :	MAR 08, 2023
NHTSA Recall No. :	23V-126
Manufacturer Recall No. :	SR23-05

Manufacturer Information :

Manufacturer Name : Prevost Car (US) Inc. Address : 201 South Avenue South Plains NJ 07080 Company phone : 908-222-7211

Population :

Number of potentially involved : 555 Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1:	2018-2023 Prevost H3-45		
	BUSES, MEDIUM & HEAVY VI	EHICLES	
Body Style :			
Power Train :	DIESEL		
Descriptive Information :	The population was determined by identifying all vehicles equipped with an Automatic Fire Suppression System (AFSS) optical fire sensor positioned in the engine compartment's lower region. The recalled products are limited to these specific vehicles since they are the only ones with the problematic optical fire sensor configuration. It is to be noted that not all vehicles produced during the indicated production dates are concerned by this issue given that the Automatic Fire Suppression System is offered as an option for clients. Other vehicles not included in this recall were also equipped with an AFSS optical fire sensor. However, the sensor in these vehicles is positioned in the engine		
	generate the issue addressed not included in the recalled p	-	ese vehicles were
		Tected by the recall: 3 MY2018 Prevo MY2020 Prevost H3-45, 5 MY2021 I 39 MY2023 Prevost H3-45.	
Production Dates :	NOV 01, 2017 - DEC 01, 2022		
VIN Range 1:1	Begin : NR	End: NR	Not sequential



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	2018-2023 Prevost H3-45 VIP
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	
Power Train :	DIESEL
Descriptive Information :	The population was determined by identifying all vehicles equipped with an Automatic Fire Suppression System (AFSS) optical fire sensor positioned in the engine compartment's lower region. The recalled products are limited to these specific vehicles since they are the only ones with the problematic optical fire sensor configuration. It is to be noted that not all vehicles produced during the indicated production dates are concerned by this issue given that the Automatic Fire Suppression System is offered as an option for clients.
	Other vehicles not included in this recall were also equipped with an AFSS optical fir sensor. However, the sensor in these vehicles is positioned in the engine compartment's upper region (different sensor configuration), which does not generate the issue addressed by this recall, thus justifying why these vehicles were not included in the recalled population.
	The following vehicles are affected by the recall: 2 MY2018 Prevost H3-45 VIP, 40 MY2019 Prevost H3-45 VIP, 35 MY2020 Prevost H3-45 VIP, 39 MY2021 Prevost H3-45 VIP, 31 MY2022 Prevost H3-45 VIP, and 11 MY2023 Prevost H3-45 VIP.
Production Dates :	NOV 21, 2017 - OCT 14, 2022
VIN Range 1:	
Description of the Defe	ect : On certain vehicles, the optical fire sensor could malfunction and wrongfully detect a fire. In this event, the Automatic Fire Suppression System (AFSS) may give false warning to the driver, command an unwarranted engine shutdown, and release chemical fire extinguishing agent in the engine compartment.
FMVSS	detect a fire. In this event, the Automatic Fire Suppression System (AFSS) may give false warning to the driver, command an unwarranted engine shutdown, and release chemical fire extinguishing agent in the engine compartment.
Description of the Defe FMVSS	 detect a fire. In this event, the Automatic Fire Suppression System (AFSS) may give false warning to the driver, command an unwarranted engine shutdown, and release chemical fire extinguishing agent in the engine compartment. 51: NR 52: NR

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	contaminants. The presence of road c fire sensor mounting bracket that was these operating conditions, promotes sensor's housing. Under certain condi sensor's housing and allow water to it malfunction and to falsely detect fires In some cases, the Automatic Fire Sup intermittently illuminated prior to the visible and audible alert prior to the e	s not adequately designed by Preve corrosion between the bracket an itions, corrosion could damage the ngress, ultimately causing the sens s. opression System trouble light may e event. The driver will also receive	ost for d the sor to 7 be
volved Components :			
Component Name 1:	Fire Sensor PM-3M		
Component Description :	Optical Fire Sensor		
Component Part Number :	563457		
Component Name 2:	AFSS Optical Sensor Bracket		
Component Description :	AFSS Optical Sensor Bracket		
Component Part Number :	061167		
Component Name 3:	AFSS Optical Sensor Bracket		
Component Description :	AFSS Optical Sensor Bracket		
Component Part Number :	0610076		
pplier Identification :			
Component Manufacturer			
Name : NR Address : NR			
NR			
Country: NR			

The information contained in this report was submitted pursuant to 49 CFR §573

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2022-10-07 One field report related to this issue involving one vehicle was received.

2022-10-21 Internal Prevost investigation was opened to identify the root cause and to determine if the issue is safety related.

2022-11-16 Case was presented on Volvo Product Safety Working Group (PSWG) to evaluate if there is a potential safety related issue. It was concluded that further investigation was required to complete the assessment.

2022-11-28 A failed sensor was sent to an external laboratory for exhaustive corrosion analysis.

2023-01-16 All field reports and warranty claims related to this issue were analyzed. Two other field reports related to this issue were reported. The first field report was received on 2019-11-28 and indicated that one MY2019 H3-45 experienced a false AFSS activation, most likely due to a corroded optical fire sensor. The report indicated that the same issue targeted five other H3-45. The second field report was received on 2022-06-24 and indicated that two MY2019 H3-45 experienced a false AFSS activation, potentially due to a Linear Thermal Detector malfunction. The investigation revealed that the false activation probably resulted from a corroded optical fire sensor. Four warranty claims related to this issue were received, all on MY2019 H3-45. The claims were received on 2020-01-27, 2020-01-30, 2020-02-05, and on 2022-04-28. Note: Two of these warranty claims were included in the field reports.

2023-01-24 Case was presented on Volvo PSWG. Decision made to raise the potential safety issue to Volvo Product Safety Committee (PSC) for review and determination.

2023-02-14 Internal campaign was launched to solve the issue on all vehicles in production before being delivered.

2023-02-23 Case was presented to Volvo PSC. It was concluded that there was a safety related defect and that a recall is needed.

2023-02-24 Safety Recall report submitted to authorities.

No accidents, injuries, or fatalities related to this issue were reported.

Description of Remedy :

Description of Reme	Program : Prevost will inspect all concerned vehicles, replace the optical fire sensor if required, and install spacers between the optical fire sensor and its bracket to stop corrosion. Letters will be sent to customers to inform them on how to proceed. Prevost will execute this correction free of charge (parts and labor) for the customers. In case a customer has already inspected and corrected this defect before the safety recall has been launched, this customer will be reimbursed according to Prevost reimbursement plan.
How Remedy Comp	ent Differs The remedy consists of adding spacers between the optical fire sensor and

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from Recalled Component :	its bracket. The remedied assembly (fire sensor and its bracket) will therefore include spacers that maintains a void between the sensor's housing and the bracket, thus preventing all corrosion. The recalled assembly does not include spacers that creates a void (the optical fire sensor is in contact with its bracket).
5	The recall condition was corrected in production on February 14, 2023, when an internal campaign was launched to add spacers between the fire optical sensor and its bracket on all concerned vehicles before being delivered to customers.
Recall Schedule :	
	Please note that Prevost does not have a dealer network and the dates entered for the planned dealer notification begin/end date are only to avoid NHTSA Recall Portal error while submitting the recall report.
Planned Dealer Notification Date :	APR 15, 2023 - APR 15, 2023
Planned Owner Notification Date :	ADD 15 0000 ADD 15 0000

* NR - Not Reported

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