

Part 573 Safety Recall Report

21V-847

Manufacturer Name : Palfinger USA, LLC

Submission Date : JAN 04, 2022

NHTSA Recall No. : 21V-847

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Palfinger USA, LLC

Address : 4151 OH-18
Tiffin OH 44883

Company phone : (419) 448-8156

Population :

Number of potentially involved : 364

Estimated percentage with defect : 50 %

Vehicle Alterer Information :

Vehicle 1 : 2015-2021 Palfinger USA PW32001

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks. Affected models include: PW32001; PW32001-A; PW32001-SLE; PW35001; PW35001-SH; PW38001; PW42001; and PW50001. We estimate the number of affected products.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 2 : 2015-2021 Palfinger USA PW 32001-A

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 3 : 2015-2021 Palfinger USA PW32001-SLE

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 4 : 2015-2021 Palfinger USA PW35001

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 5 : 2015-2021 Palfinger USA PW35001-SH

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 6 : 2015-2021 Palfinger USA PW38001

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 7 : 2015-2021 Palfinger USA PW42001

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Vehicle 8 : 2015-2021 Palfinger USA PW50001

Descriptive Information : Out of an abundance of caution, we plan to examine all cranes installed by Palfinger USA. Affected vehicles may contain shear plates with premature fatigue cracks.

Production Dates : AUG 01, 2016 - AUG 01, 2021

Description of Defect :

Description of the Defect : Shear plates installed by Palfinger USA are experiencing premature fatigue cracks. The cracks primarily occur under the front crane mounting bushings. Cracks have been observed on both the PS and DS of the vehicle.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Risks related to motor vehicle safety are minimal. Risks associated with crane operation are elevated. If fatigue cracks are not repaired in a timely manner, the cracks can propagate causing a shear plate failure which results in a tipping/falling action of the boom tip and any attached load, potentially causing harm to bystanders and/ or damage to property.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name : Shear Plate

Component Description : Plate steel either 3/8" or 1/2" thick, welded to the crane sub frame and the truck frame, into one singular composite structure for improved bending/torsional characteristics.

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

In August of 2021, a unit failed. The unit was moved from the owner's yard in Denver, Colorado to Tiffin, Ohio. Additional units were analyzed to collect field data. During this analysis, additional deficiencies were discovered. In September, a representative from ESI, a third party engineering firm, came to Tiffin, Ohio to review the failure mode. In reviewing the field findings and report from ESI, it was decided that a recall should be conducted.

Description of Remedy :

Description of Remedy Program : Cranes subject to this recall will be inspected by a Palfinger USA representative, and any units found to have non-conforming shear plates/ welds will be converted to an updated mounting design.

How Remedy Component Differs from Recalled Component : The updated mounting design will lower the stress concentrations to an acceptable level.

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : NR

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : DEC 30, 2021 - DEC 31, 2021

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name :

Address :

Country :

Company Phone :

* NR - Not Reported