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By Recall Management Division at 7:07 am, Mar 15, 2013

By email to rmd.odi@dot.gov

March 14, 2013

Ms. Nancy Lewis
Associate Administrator for Enforcement
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

RE: Terex South Dakota, Inc. Aerial Device

Dear Mr. Smith:

In the enclosed Defect Information Report, Terex South Dakota, Inc. is notifying your office of its determination that a safety related defect exists in certain Utility Trucks manufactured by Terex South Dakota, Inc. This letter also includes a draft owner notification letter for review and approval by your staff.

A representative copy of campaign bulletin SN601 is also enclosed, in compliance with Section 573.6 (c) (9).

If you need any additional information, please contact me.

Sincerely,

Jim Olson
Product and Safety Engineer
Terex South Dakota, Inc.
jim.olson@terex.com

Enclosures:
Defect Information Report, SN601
Owners Letter, SN601
Representative Envelope
SN601Bulletin



DEFECT INFORMATION REPORT

- 1. Manufacturer's name/address:** Terex South Dakota, Inc., 500 Oakwood Road, Watertown, SD 57201 is the equipment manufacturer.
- 2. Equipment involved in this defect notification:** Aerial Devices manufactured from 2000 through 2009 by Terex South Dakota, Inc. The models are TC, RM, OM-DHL, XM aerials only with controls below rotation are affected. The aerial device is installed on trucks used to elevate personnel for utility work while parked and stationary.
- 3. Total number of vehicles or items of equipment:** 240 units may be affected.
- 4. Approximate percentage of vehicles or equipment estimated to actually contain the defect:** Approximately 5% of the potentially affected aerials may experience the defect.
- 5. Description of the defect:** The 15 port hydraulic rotary manifold may fail seal lands after several years of operation, when operating the Aerial Device. The failure of a seal land will allow oil to flow to the adjacent port and may pressurize adjacent functions causing movement.
- 6. Chronological summary of events leading to this determination:** The first report of failure was in 2009. The pressures in the unit were analyzed and sample rotary manifolds were cycle tested and ultimate pressures determined. Nothing was determined from samples tested, and ultimate pressure was over 3 times rating. Since then 5 units have been reported to have experienced leakage. To ensure a failure will not cause movement the recall was determined to be required.
- 7. The determination of existence of problem:** The aerial units were reported through field service.
- 8. Description of proposed remedy:** The units will have the pressure ports moved so there are return ports, which do not operate boom functions, on both sides of pressure ports. A solenoid will be added above rotation on closed center units to allow overriding the upper controls from the lower in case of failure.
- 9. Program for remedy campaign (including program for reimbursing any consumer who obtained the remedy at his/her own expense within one year of the opening of the EA, or within one year of this 573 report, whichever is earlier):** Repairs will be covered under warranty.
- 10 The manufacturer's campaign number:** SN601.