TO: Owners, Users, Dealers, and Installers

MODELS AFFECTED: All Units

SUBJECT: Maintenance and Inspection of Aerial Devices, Digger Derricks, and Pressure Diggers

Issue:
This bulletin is to serve as a reminder to all owners and users of Terex equipment of the importance of proper maintenance and inspections of their equipment. Owners and Users, of Aerial Devices, Digger Derricks, and Pressure Diggers, have the responsibility to have qualified personnel operate and perform inspections and maintenance in accordance with the manufacturer’s recommendations. Failure to inspect and properly maintain equipment can turn minor repairs into severe issues. Employers using Aerial Devices, Digger Derricks, and Pressure Diggers must be aware of the importance of proper maintenance and inspection of their equipment to prevent injury or death of employees.

What the Owner must Do:
It is the responsibility of the owners/users/employers to ensure compliance to ANSI Standards and OSHA regulations. Sections 8, 9, and 10 of ANSI 92.2–2015 (Aerial Devices), ANSI 10.31–2019 (Digger Derricks) requires the owner, user, and operator to perform maintenance and inspections as specified. The requirements for the specific models are given in the manuals provided with the unit. An Operator’s manual is required to be in the vehicle. If the manual is missing, it must be replaced by contacting a TEREX Utilities branch or dealer as shown on the terexutilities.com website, or by calling Terex Utilities at 1-844-837-3948 and requesting replacement parts.

Action:
The owner and users of aerial devices, digger derricks, and pressure diggers are responsible to:

- Utilize trained maintenance personnel and operators.
- Perform inspections as required prior to use for each shift.
- Perform the Frequent Inspections
- Perform the Periodic Inspections and Maintenance as given in the Operator’s and Maintenance Manuals.
- Perform post event inspections or tests if the machine has been subjected to excessive loading or stress.
**What Terex will Do:**

It is the position of Terex that the maintenance and inspection intervals indicated in unit maintenance manuals and on unit lubrication charts are critical and must not be exceeded without prior manufacturer approval. Modification to the aerial device, digger derrick, or pressure digger must be approved in writing by the manufacturer or by an equivalent entity after examination and approval of an engineer.

Replacement manuals can be ordered by providing a Terex Utilities dealer or branch with the serial number of the unit.

Terex can provide training on inspections and maintenance for the various models both online, onsite and at factory service schools. Refer to the website given below for more information and scheduled events. The ANSI A92.2 Manual of Responsibility can be ordered from your local Terex dealer or branch (part number: 494633) or directly from ANSI.ORG.

If more information is needed contact your local Terex dealer or branch or contact Technical Support at utilities.service@terex.com or by calling 1-844-837-3948 and asking for technical support.

**Dealers and Installers:** Contact Terex Utilities at 1-844-837-3948 and ask for technical support if information for specific models is needed based on the unit serial number.

**Important:** Units in rental fleets; Lessors, upon delivery of the unit to the Lessee, must instruct the Lessee of their responsibilities in Section 8 regarding inspection, testing, and maintenance requirements. Lessors should make this Product Advisory available to the users of their equipment.
The following are examples from the online training programs available through the Master Mechanic Learning Center. These are items to consider during the inspection to maintain equipment in a safe condition for the operation of aerials, digger derricks, and pressure diggers. This is not an exhaustive list, only examples. Refer to the unit specific manuals for more information:

Read and understand the manuals

The first item for proper inspection and maintenance is to read and understand the manuals. The manuals contain information for proper inspection, maintenance, and operation of the equipment. Follow all rules and regulations for the work you are using the aerial device, digger derrick, or pressure drill to perform. Do not exceed the capacities for the platform(s) or load charts provided on the equipment.

FREQUENT AND PERIODIC INSPECTION INTERVALS

DAILY
1. Check controls at platform and lower controls for proper operation.
2. Inspect fall protection equipment and attachments.
3. Inspect visual and audible devices.
4. Check condition, cleanliness, and status of fiber glass components.
5. Visually check for missing or loose covers and guards.
6. Check for missing and illegible operational, warning, or instructional markings.
7. Visually check oil level in hydraulic reservoir.
8. Visually inspect for leaks in hydraulic system.
9. Check all areas for evidence of physical damage.
10. Visually check all tighteners for leaks.
11. Visually inspect all fasteners for tightness.
12. Visual inspection of all structural members, Digger Derrick, accessories, auxiliaries, subframes, and attachments, for cracks and permanent deformation.
13. Check for rotational obstructions.
14. Visual inspection of all electrical wires.
15. Inspect wrench line, hooks, and chains.
17. Inspect for damaged or missing auger bushing.

90 DAYS (360 HOURS)
1. Replace return filter.
2. Visually inspect all sheaves and pins.
3. Lubricate all points per lubrication chart recommendations.
4. Daily inspections.

100 DAYS (720 HOURS)
1. Check tightness of rotation bearing bolts, turntable to bearing, and bearing to pedestal for proper torque.
2. Daily and tri-daily (360 hours) inspections.

12 MONTHS (1,280 HOURS)
1. Inspect and lubricate PT/0 drive shaft to pump.
2. Take samples of hydraulic oil and test.
3. Check cylinder drift.
4. Perform visual inspection of all critical welds.
5. Perform dielectric test.
6. Check all hydraulic pressure adjustments for proper setting.
7. Daily, 90 days (360 hours), and 180 days (720 hours) inspections.

Lubrication

Needs Lubrication

Rotation system

Sample Lubrication Chart on units.
Hydraulic System - Leaks
Check the hydraulic oil level and change filters as instructed to extend the life of the hydraulic system.

Leveling Systems
Rusty leveling chains, turned pins, or damaged leveling rods require replacement.
Structural inspections – Cracks or damage

Samples of cracks

Severe rust hiding a crack. Inspection requires cleaning the area

Severe rust that needs further examination

Dented and cracked
Fiberglass Damage

Severe rust and fiberglass crack

**Missing Fasteners**
Verify the pins and fasteners are not bent, loose, or missing.

All Fasteners and pins in place

Inspect all load lines and lifting rigging

Broken fastener
Turntable bearing bolts in place and torqued, Pedestal to bearing and turntable to bearing

Dented component          Bent component

Electrical contact – Arc marks –