TEREX®

Terex Utilities	
PRODUCT ADVISORY	**PA-1002-01**

DATE: 5/17/2001 **REVISED: 5/22/2020**

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.

Terex South Dakota, Inc.
3140 15th Ave SE
Watertown, SD 57201 USA
1-844-837-3948 • Fax 1-605-882-1842

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 dryness of fiberglass 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 cylinders for leaks.
11. Visually inspect all fasteners for tightness.
12. Visual inspection of all structural members; Digger Derrick, accessories, outriggers, subframe, and attachments, for cracks and permanent deformation.
13. Check for rotational obstructions.
14. Visual inspection of all electrical wires.
15. Inspect winch line, hook, and slings.
16. Visually inspect Auger Roll Up Cable.
17. Inspect for damaged or missing auger teeth.

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.

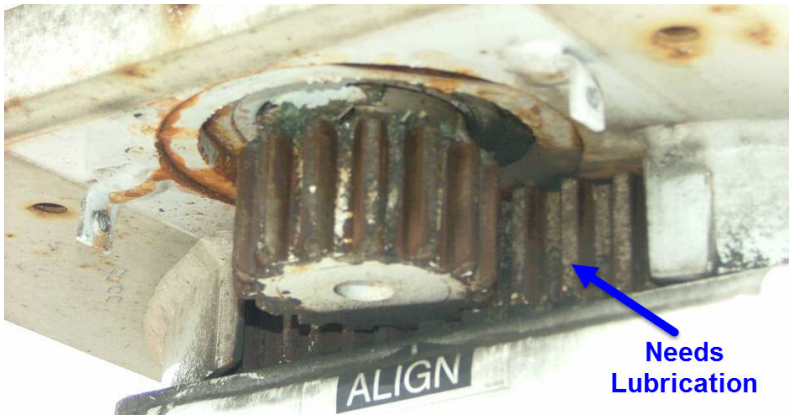
180 DAYS (720 HOURS)

1. Check tightness of rotation bearing bolts, turntable to bearing, and bearing to pedestal for proper torque.
2. Daily and 90 days (360 hours) inspections.

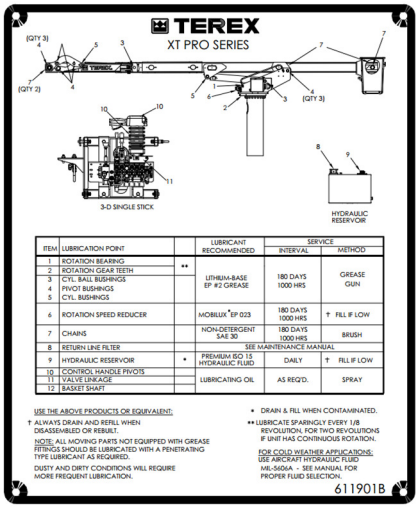
12 MONTHS (1,050 HOURS)

1. Inspect and lubricate PTO 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



Rotation system



ITEM	LUBRICATION POINT		LUBRICANT RECOMMENDED	SERVICE INTERVAL	SERVICE METHOD
1	ROTATION BEARING	**	LITHIUM-BASE EP #2 GREASE	180 DAYS 1000 HRS	GREASE GUN
2	ROTATION GEAR TEETH				
3	CYL. BALL BUSHINGS				
4	PIVOT BUSHINGS				
5	CYL. BUSHINGS				
6	ROTATION SPEED REDUCER		MOBILUX* EP 023	180 DAYS 1000 HRS	† FILL IF LOW
7	CHAINS		NON-DETERGENT SAE 30	180 DAYS 1000 HRS	BRUSH
8	RETURN LINE FILTER		SEE MAINTENANCE MANUAL		
9	HYDRAULIC RESERVOIR	*	PREMIUM ISO 15 HYDRAULIC FLUID	DAILY	† FILL IF LOW
10	CONTROL HANDLE PIVOTS		LUBRICATING OIL	AS REQ'D.	SPRAY
11	VALVE LINKAGE				
12	BASKET SHAFT				

USE THE ABOVE PRODUCTS OR EQUIVALENT;
† ALWAYS DRAIN AND REFILL WHEN DISASSEMBLED OR REBUILT.
NOTE: ALL MOVING PARTS NOT EQUIPPED WITH GREASE FITTINGS SHOULD BE LUBRICATED WITH A PENETRATING TYPE LUBRICANT AS REQUIRED.
DUSTY AND DIRTY CONDITIONS WILL REQUIRE MORE FREQUENT LUBRICATION.

* DRAIN & FILL WHEN CONTAMINATED.
** LUBRICATE SPARINGLY EVERY 1/8 REVOLUTION. FOR TWO REVOLUTIONS IF UNIT HAS CONTINUOUS ROTATION.
FOR COLD WEATHER APPLICATIONS: USE AIRCRAFT HYDRAULIC FLUID MIL-5606A - SEE MANUAL FOR PROPER FLUID SELECTION.

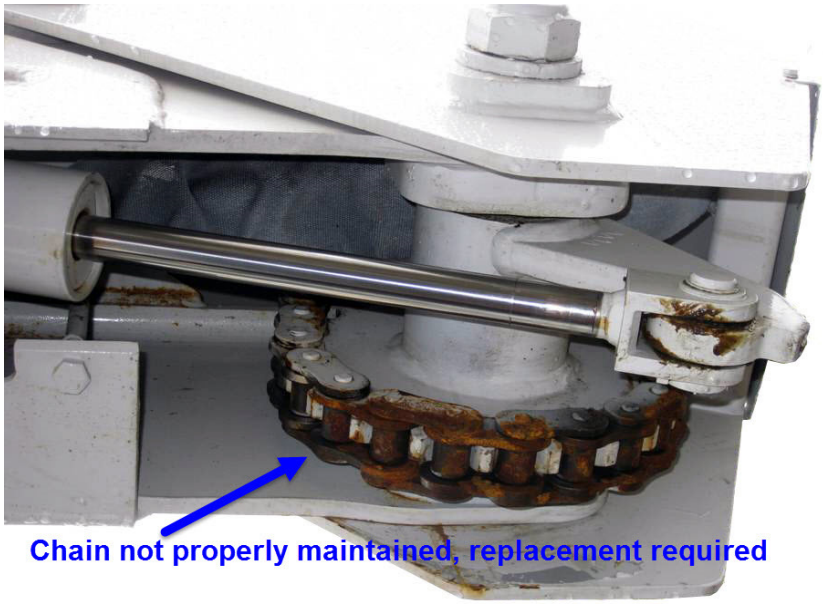
Sample Lubrication Chart on units

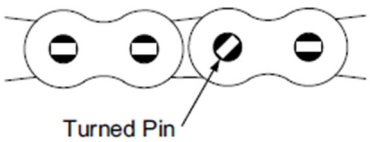
Hydraulic System - Leaks

Check the hydraulic oil level and change filters as instructed to extend the life of the hydraulic system.

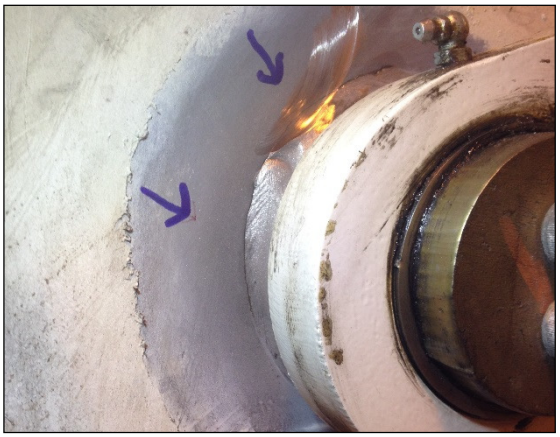
Leveling Systems

Rusty leveling chains, turned pins, or damaged leveling rods require replacement.





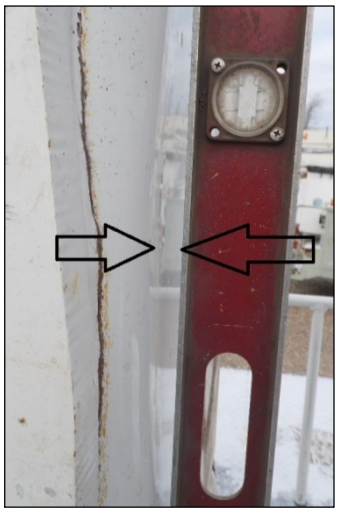
Structural inspections – Cracks or damage



Samples of cracks

Severe rust hidding 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

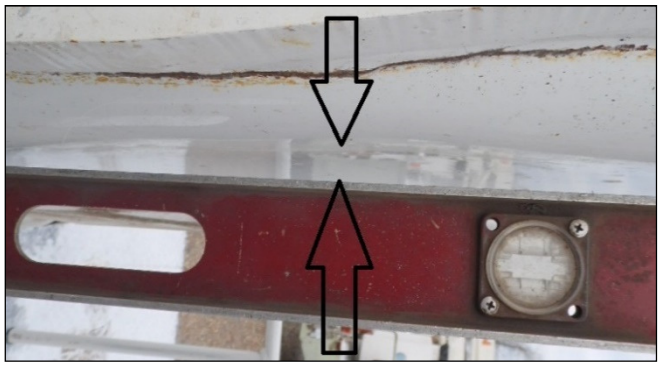
Verify the pins and fasteners are not bent, loose, or missing.

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 –