Maintenance Procedures

Maintenance Schedule

The maintenance procedures have been divided into subsections that include: Commissioning, Quarterly, Annually and Programmed maintenance intervals. The maintenance inspection report has been divided into general areas of the machine that include: Drive Chassis, Booms and Platform, Functions and Controls, Engine and Turntable.

Failure to perform these procedures may result in poor performance, component damage and unsafe operating conditions. They are essential to safe operation, machine performance and service life.

Commissioning: A series of required one time maintenance procedures to be performed at 50 and 150 hour intervals.

Quarterly and Annually: A series of maintenance procedures to be performed quarterly or annually.

Programmed: A series of maintenance procedures to be performed during a Pre-Delivery Preparation or based on machine operating hours.

Maintenance Inspection Report

The maintenance inspection report contains checklists for each type of scheduled inspection.

Make copies of the *Maintenance Inspection Repor*t to use for each inspection. Maintain completed forms for a minimum of 4 years or in compliance with your employer, jobsite and governmental regulations and requirements.

Instruction Examples

Commissioning Example:

Commissioning	1 50	1 150
2 Engine - all models 3 PO-1	4	4

Quarterly and Annually Example:

6 Drive Chassis	1 Intervals	Q	A
2 Inspect the tires, wheels and Lug Nut Torque	3 Q-4	4	5 Ø

Programmed Example (under 1000 HRS):

Programmed Maintenance - Under 1000 HRS		Status	Enter Hours
2 Check Track Tension/Fastener Torque	3 P0-1	4	7 50
2 Engines - Deutz Under 1000 HRS	3 P0-2	4	7

Programmed Example:

Programmed Maintenance	1 Hours are in thousands					
All models	1	2	3	4	6	12
2 Engine - all models, 1000 hrs 3 P1-1	4	Ø	Ø	Ø	Ø	Ø

Instructions Legend

Use the following detailed descriptions to identify the intended use of the maintenance inspection reports.

1	Specific Interval: blank box is the interval to be completed and the ∅ marks the interval as not required.
2	The description of the procedure or checklist to be completed.
3	The procedure number or checklist to be completed.
4	Check box to indicate status of inspection.
5	Specific interval is not required for this procedure.
6	General area of the machine to complete the procedure.
7	If this box has a designated time interval: this is the specific time interval to complete the procedure or checklist. If this box is empty: the maintenance checklist will include multiple time intervals, use this box to write in the specific interval for the inspection completed.

Pre-Delivery Preparation Report

Fundamentals

It is the responsibility of the owner or dealer to perform the Pre-delivery Preparation.

The Pre-delivery Preparation is performed prior to each delivery. The inspection is designed to discover if anything is apparently wrong with a machine before it is put into service.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

Instructions

Use the operator's manual on your machine.

The Pre-delivery Preparation consists of completing the Pre-operation Inspection, the Maintenance items and the Function Tests.

Use this form to record the results. Place a check in the appropriate box after each part is completed. Follow the instructions in the operator's manual.

If any inspection receives an N, remove the machine from service, repair and re-inspect it. After repair, place a check in the R box.

Legend

Y = yes, acceptable
N = no, remove from service
R = repaired

Comments

Pre-delivery Preparation	Y	N	R
Pre-operation inspection completed			
Maintenance items completed			
Function tests completed			

Genie
A TEREX BRAND

Terex South Dakota, Inc USA
500 Oak Wood Road
PO Box 1150
Watertown, SD 57201-6150
(605) 882-4000

Genie UK
The Maltings, Wharf Road
Grantham, Lincolnshire
NG31- 6BH England
(44) 1476-584333

Model

Serial number

Date

Machine owner

Inspected by (print)

Inspector signature

Inspector title

Inspector company

Scheduled - Quarterly
Maintenance Inspection Report – Booms

Model	Hour meter	Date
Serial number	Inspector company	Machine owner
Inspected by (print)	Inspector signature	

Inspection Type
Q = quarterly or frequent inspections

Legend Y = yes, acceptable; N = no, remove from service; R = repaired; ∅ = not applicable

Make copies of this report to use for each inspection. Select the appropriate procedures for the type of inspection(s) to perform.

If any inspection receives an "N," tag and remove the machine from service, repair and re-inspect it. After repair, place a "R" in the box.

Drive Chassis		✓
Inspect the Tires, Wheels and Lug Nut Torque	Q-6	
Check the Oscillate Valve Linkage (if equipped)	Q-8	
Confirm the Proper Brake Configuration	Q-20	
Turntable Mechanicals and Hydraulics		
Visual Inspection of the Hydraulic Oil	Q-9	
Inspect the Hydraulic Filters	Q-10	
Electrical		
Inspect Electrical Contactors - DC / Bi-Energy Models	Q-4	
Battery Inspection	Q-2	
Inspect the Electrical Wiring	Q-3	
Engine		
Check the Exhaust System	Q-5	
Check Generator Belts/Pulleys - Bi-Energy Models	Q-7	
Check and Adjust the Engine RPM	Q-11	
Boom(s) and Platform		
Inspect and Adjust Boom Cables - All Models (for first 12 months of ownership)	Q-36	
Functions and Controls		✓
Check for Open Bulletins and Owner Registration	Q-1	
Test the Ground Control Override	Q-12	
Test the Alarm Package (if equipped)	Q-13	
Test the Emergency Power System	Q-14	
Test the Engine Idle Select Operation	Q-15	
Test Fuel Select Operation - Gas/LPG Models	Q-16	
Inspect the Calibration Decal - ALC1000 Models	Q-17	
Test the Recovery System - ALC-1000 Models	Q-18	
Test the Platform Self-leveling	Q-19	

Functions and Controls, continued		✓
Test the Drive Brakes	Q-21	
Test the Drive Speed – Stowed Position	Q-22	
Test the Drive Speed – Raised or Extended Position	Q-23	
Test the Drive Speed – Raised and Extended Position - ALC1000 Models	Q-24	
Test the Turntable Level Sensor - Z-135/70, ZX-135/70, SX-105XC, SX-125XC, SX-135XC, SX-150, SX-180	Q-25	
Test the Secondary Boom Angle Sensor - Z-135/70, ZX-135/70	Q-26	
Test the Primary Boom Angle Sensor - Z-135/70 and ZX-135/70	Q-27	
Test the Primary Boom Angle Sensor - SX-105XC, SX-125XC, SX-135XC, SX-150, SX-180	Q-28	
Test the Safety Envelope Limit Switches - Z-135/70, ZX-135/70, SX-105XC, SX-125XC, SX-135XC, SX-150, SX-180	Q-29	
Test the Primary Boom Angle Sensor - Z-80/60	Q-30	
Test the Safety Envelope and Circuits - Z-80/60	Q-31	
Check the Safety Envelope Limit Switches and Angle Sensor - S-60X, S-80X, to S60XCH-45000	Q-32	
Test the Safety Envelope and Circuits - S-100, S-105, S-120, S-125	Q-33	
Test the Aircraft Protection System (if equipped)	Q-34	
Test the Operator Protection Alarm (if equipped)	Q-35	
Test the Recovery System - ALC600 Models	Q-37	
Test the Turntable Level Sensor - ALC600 Models	Q-38	
Test the Primary Boom Angle Sensor - ALC600 Models	Q-39	

Scheduled - Annual
Maintenance Inspection Report – Booms

Model	Hour meter	Date
Serial number	Inspector company	Machine owner
Inspected by (print)	Inspector signature	

Inspection Type A = annual inspections	**Legend** Y = yes, acceptable R = repaired	N = no, remove from service ∅ = not applicable	Make copies of this report to use for each inspection. Select the appropriate procedures for the type of inspection(s) to perform.

If any inspection receives an "N," tag and remove the machine from service, repair and re-inspect it. After repair, place a "R" in the box.

⚠ Confirm all applicable quarterly maintenance procedures have been included and completed with the annual inspection.

		✓
Drive Chassis		
Check the Drive Hub Oil Level	A-10	
Check the Drive Hub Mounting Fastener Torque	A-11	
Turntable Mechanicals and Hydraulics		
Grease the Turntable Rotation Bearing	A-1	
Check Turntable Bearing Bolts	A-2	
Inspect for Turntable Bearing Wear	A-3	
Boom(s) and Platform		
Jib Rotate Bearing (if equipped)	A-4	
Grease the Platform Overload Mechanism	A-6	
Inspect Boom Cables - All S-60, S-80 Models	A-7	
Inspect Boom Cables - S-100 to S-125, S-100HD, S-120HD, SX-105XC, SX-125XC	A-8	
Inspect Boom Cables - SX-135XC, SX-150, SX-180	A-9	
Functions and Controls		
Test the Bypass/Recovery Key Switch	A-5	
Engines		
Perform Engine Maintenance - Kubota D1803, Kohler KDW1404	A-12	

⚠ Confirm all applicable quarterly and annual maintenance procedures have been included and completed with the 2 year inspection.

		✓
Perform Every 2 Years		
Engines		
Perform Engine Maintenance - Kubota D1803, Kohler KDW1404	A-13	

Programmed
Maintenance Inspection Report – Booms

Model	Hour meter	Date
Serial number	Inspector company	Machine owner
Inspected by (print)	Inspector signature	

Programmed maintenance will be completed based on machine hours. This program includes the onetime or commissioning procedures for new products.
The onetime procedures will be completed at 50 or 150 hours.

Legend
Y = yes, acceptable
N = no, remove from service
R = repaired
∅ = not applicable

Make copies of this report to use for each inspection.
Select the appropriate procedures for the type of inspection(s) to perform.

If any inspection receives an "N," tag and remove the machine from service, repair and re-inspect it. After repair, place a "R" in the box.

Commissioning		50	150
50 Hour Service - all models	C-1		∅
Engines - Ford, Kubota, Perkins Models	C-2		∅
Perform 150 Hour Service	C-3	∅	

Programmed Maintenance - Under 1000 HRS		**Status**	**Enter Hours**
Check the Track Tension and Fastener Torque - S-60, S-65 and Z-62 Models	P0-1		50
Check the Track Tension and Fastener Torque - S-40 and S-45 Models	P0-2		50
Grease the Extendable Axles - (if equipped)	P0-3		50
Engines - Continental Under 1000 HRS	P0-4		
Engines - Cummins Under 1000 HRS	P0-5		
Engines - Deutz Under 1000 HRS	P0-6		
Engines - Ford Under 1000 HRS	P0-7		
Engines - Kubota Under 1000 HRS	P0-8		
Engines - Perkins Under 1000 HRS	P0-9		
Engines - GM .998L Under 1000 HRS	P0-10		
Engines - GM 3.0L Under 1000 HRS	P0-11		
Engines - -Kohler KDW1404 Under 1000 HRS	P0-12		
Engines - Weichai WP3.2 Under 1000 HRS	P0-13		

Programmed Maintenance		**Hours are in thousands**							
All models	**Perform every:**	**1**	**2**	**3**	**4**	**5**	**6**	**10**	**12**
Engines - all models, 1000 Hours	P1-1		∅	∅	∅	∅	∅	∅	∅
Replace the Drive Hub Oil	P1-2		∅	∅	∅	∅	∅	∅	∅
Engines - Kubota D1803, 1500 Hours	P1-3		∅	∅	∅	∅	∅	∅	∅
Engines - all models, 2000 Hours	P2-1	∅		∅	∅	∅	∅	∅	∅
Test or Replace the Hydraulic Oil	P2-2	∅		∅	∅	∅	∅	∅	∅
Replace the Hydraulic Filters	P2-3	∅		∅	∅	∅	∅	∅	∅
Check the Free-wheel Configuration	P2-4	∅		∅	∅	∅	∅	∅	∅
Check the Boom Wear Pads	P2-5	∅		∅	∅	∅	∅	∅	∅
Check the Extendable Axle Wear Pads	P2-6	∅		∅	∅	∅	∅	∅	∅
Check Turntable Gear Backlash - ALC1000 Models	P2-7	∅		∅	∅	∅	∅	∅	∅
Grease the Steer Axle Wheel Bearings, 2WD Models (except Z-62, S-60, S-65)	P2-8	∅		∅	∅	∅	∅	∅	∅
Grease the Steer Axle Wheel Bearings, 2WD Models - Z-62, S-60, S-65	P2-9	∅		∅	∅	∅	∅	∅	∅
Engines - all models, 3000 Hours	P3-1	∅	∅		∅	∅	∅	∅	∅
Engines - Perkins models, Kohler KDW1404, 4000 Hours	P4-1	∅	∅	∅		∅	∅	∅	∅
Engines - GM models, Kohler KDW1404, 5000 Hours	P5-1	∅	∅	∅	∅		∅	∅	∅
Engines - Perkins models, 6000 Hours	P6-1	∅	∅	∅	∅	∅		∅	∅
Engines - Kohler models, 10000 Hours	P10-1	∅	∅	∅	∅	∅	∅		∅
Engines - Perkins models, 12000 Hours	P12-1	∅	∅	∅	∅	∅	∅	∅	
Remove and Inspect Boom cables	P12-2	every 12 years or every 3 years after first 12 years if not replaced							