Terex MAC25 Franna Service Schedule

Date: 10/7/21 **Rego:** XQ90GD **Plant ID:** 941

Make	Terex	Model	MAC25
Service Type	2000hr	Serial No:	251264
Service Hrs.	4000hr	KM	41912
Next Service	4250hr	Due *(+/- 50Hr. Reading)*	3991

Status type: Satisfactory ✓ Action Required ✗ Not Applicable NA

Description	Status	Action/ Comments
1000hr Service		
CABIN & CONTROLS		
Check EMERGENCY Steer Pump Operation	✓	Refer Operator's Manual for Spec.
Check Air Conditioning	✓	
Check 2/4WD & HI/LO Operation	✓	
Check 4WD Audible Warning	✓	
Check Diff Lock Operation	✓	
Check Holding Brake Operation	✓	
Check Emergency Stop Button Operation	✓	
Check Reversing and Winch Camera Operation	✓	
Check AM/FM Radio Operation	✓	
Check Heater Operation	✓	
Check Wiper Operation	✓	
Refill Windscreen Washer Water & Test Operation	✓	
Check Front Spring Lockout Operation	✓	
Check Air Conditioning	✓	200 bar activation pressure
Check Park Brake Operation	✓	
Check Foot Valve Operation	✓	
Check ALL Warning Lights and Buzzers	✓	
Check ALL Instruments for Operation/Illumination	✓	
Check Indicators & Audible Warning	✓	
Check Hazard Lights	✓	
Check Horn(s)	✓	
Check Hyd. Sys. Base Pressure - use Dash Gauge		Refer Operator Manual for Pressures
Check Hyd. Sys. Max Pressure - use Dash Gauge		Refer Operator Manual for Pressures
Check Steer Pressure at Full Lock (dash gauge)	✓	
Check SLEW Light Operation	✓	
Check ALL Hydraulics for Correct Operation	✓	
Check ALL 'Crane Control Levers' for Operation	✓	
Check Clearance Lights	✓	
Check Head Lights HI/LO	✓	
Check Stop Lights	✓	
Check Reverse Light(s) & Alarm	✓	

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Check ALL Work Lights	✓	
Check Low Air Warning Devices	✓	
Check Rotating Light Operation	✓	
Check Interior Light Operation	✓	
Check Cabin for Water Leaks	✓	
Check Seat Mounting & Operation	✓	
Check Seat Belt Condition	✓	
Check Door Locks & Catches for Operation	✓	
Check Panel Condition	✓	
Check Cabin Condition		
Registration Valid & In Date		
ENGINE BAY & TRANSMISSION		
Clean or Replace Air Filter (Outer Element Only)	✓	REPLACE
Visual Inspect Radiator Screen & Cooler Cores for Blockage	✓	
Check Coolant & Inhibitor Level / Concentration	✓	
Check ALL Coolant / Heater System Hoses	✓	
Visual Inspect Air Intake Pipes & Hoses	✓	HOSE AT TURBO NEEDS REPLACING.
Tighten Intake Hose Clamps	✓	
Check Fan Viscous Coupling	✓	
Check Alternator & A/C Compressor Mount/Bolts	✓	
Check Engine Drive Belt	✓	
Check Engine Oil Level	✓	
Check Engine, Lines & Hoses for Abrasion & Position	✓	
Check Engine Piping for Leaks	X	TURBO BASE GASKET BLOWN
Visual Inspect Engine Mount(s) Condition	✓	
Check for Fuel Leaks ALL Points	✓	
Check for Oil Leaks in Engine Area	✓	
Check Hydraulic Pump PTO, Mounting & Bolts	✓	
Check Transmission Oil Level	✓	
For cranes AFTER serial no. 25324:		
Check Oil Service Condition Through Gear Selector Pad		Replace oil and filter if lower than 30%
Check Filter Service Condition Through Gear Selector Pad		Replace oil and filter if display is reading (LO)
DRIVE TRAIN & SUSPENSION		
Check Planetary Reduction (s) Oil Level	✓	REPLACE
Check Transfer Case Oil Level	✓	Run at 1000 rpm for 1 min, then check immediately REPLACE
Check Transfer Case Cooler System for Flow & Leaks	✓	
Check Front Differential Oil Level	✓	REPLACE OIL
Check Rear Differential Oil Level	✓	
Check Clamping Bolts Front & Rear Spring Packs	✓	
Check ALL Springs for Broken Leaves	X	R/H/R SPRING BROKEN
Check Radius Rods/Front Torsion Arms Tightness	X	Refer Operators Manual for Tensions BUSHS WORN
Check ALL Drive / Jack Shaft Universal Joints	✓	
Lube ALL Universal Joints on Drive Line	✓	
Check Brake Shoe Thickness (via insp.holes)	✓	Document thicknesses
Check Brake Pads Wear & Record Remaining Thickness	✓	
L/H R/H		Minimum Thickness = mm

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Axle 1				
Axle 2				
Axle 3				
Axle 4				
Adjust ALL Service Brakes			—	
Drain ALL Air Tanks of Water / Sediments			✓	
Check ALL Steering Pins / Bearings for Wear			✓	
Lube ALL Steering Pins / Bearings			✓	Use SBX-2 Grease
Tighten Steering Pin Bolts			✓	Torque setting 312nM/230lb.ft
Inspect spring lockout retaining pins			✓	As per Service bulletin SB0136
Inspect steering hoses			✓	As per Service bulletin SB0069
Inspect steering cylinder rod clevis			✓	As per Service bulletin SB0063
BOOM ASSEMBLY				
Adjust ALL Retract & Extension Ropes/Chains			✓	Refer Operator's Manual for Spec.
Check 2nd Extension Cylinder Anchor Pins			✓	Refer Service Bulletin SB0073
Re-tension Tele Secondary Cylinder Hoses			✓	Refer Service Bulletin SB0038
Retention internal secondary cylinder hose fittings			✓	
Check Winch Gearbox Oil Level			✓	
Check Winch Brake Oil Level			✓	
Check Winch Rope Condition & Lubrication			✓	
Check Winch Unit Mountings & Bolts			✓	
Visual Inspection of ALL Boom Sect. Damage/Bend			✓	
Lube All Boom Sections, Sheaves & Wear Pads			✓	
Inspect ALL Compensating Sheave Bearings			✓	
Inspect ALL Sheaves on Boom Assy.			✓	
Check Boom Rear Pivot Pins/Bearings for Movement			✓	
Lube Rear Boom Pivot Bearings			✓	Use SBX-2 Grease
Check Luff Cyl. Top/Bott Pins & Bearings Movement			✓	
Lube ALL Luff Cyl. Bearings			✓	Use SBX-2 Grease
CHASSIS & FINAL CHECKS				
Check Center Pivot Bearings/Pins for Movement			✓	Refer Service Bulletin SB0105, drawing MXA1013
Lube Centre Pivot Bearings ALL Points			✓	Use SBX-2 Grease
Check Hydraulic Reservoir Oil Level			✓	Boom Closed Up (Lowered & Retracted)
Check Counterweight Lifting Bolts for Wear & Damage			✓	Refer Service Bulletin SB0093
Clean and visually inspect counterweight retention bolt for cracks			✓	Refer Safety Notice EAF SN 17 001
Check counterweight buffers for hardening or cracking			✓	Refer Safety Notice EAF SN 17 001
Check ALL Hydraulic Cyl's for Damage/Leaks			✓	
Check ALL Hydraulic Hoses for Damage/Leaks			✓	
Check ALL Wiring for Damage & Correct Routing			✓	
Check for Air Leaks ALL Points			✓	
Check Battery Electrolyte Level			✓	
Clean & Check Battery Terminals-Holding Clamp			✓	
Check Tyre Pressures & Tyre Condition			✓	
Carry Out FULL Function/Operate Test Drive			✓	
Transmission Pre-select Downshift to 3rd			✓	
Check Exhaust Brake Operation			✓	
Lift Test Weight if Available				

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Check LMI Calibration		
Anti-two block operational	✓	
Boom length & angle indicators	✓	
Manual boom length & angle indicators	✓	
Level indicators	✓	
Emergency controls (E-Stops)	✓	
Operation & safety manuals	✓	
2 way radios condition / operation		
500hr Service		
Carry Out 250 Hour Service Schedule		
Add the Following:		
Change Engine Oil Filter	✓	
Change Engine Oil	✓	
Change Hydraulic Oil Return Filter	✓	
Change Transfer Case Oil	✓	
Change Front Differential Oil	✓	
Change Rear Differential Oil	✓	
Change Planetary Reduction(s) Oil	✓	
Adjust Rear Boom Pivot Bearings	✓	
Change Winch Gearbox Oil		
Change Winch Brake Oil		
1000hr Service		
Carry Out 250 / 750 Hour Service Schedule		
Carry Out 500 Hour Service Schedule		
Add the Following:		
Change Primary (Outer) Air Filter Element	✓	
Change Safety (Inner) Air Filter Element	✓	
Replace Fuel Filter Element	✓	
Replace Fuel Pre-filter Element	✓	
Adjust Valve Clearances		
Change Cylinder Head Valve Cover Gasket		
Check & Clean Engine Breather		
Sample Hydraulic Oil using Kit PP2128300		
For cranes BEFORE serial no 25324:		
Change Auto Transmission Oil and filters		
For cranes AFTER serial no 25324:		
Change Auto Transmission Oil and filters		At 1000hrs or when instructed by oil/filter life monitor if sooner. Not applicable to transmissions filled with synthetic oil.
2000hr Service		
Carry Out 250 / 750 Hour Service Schedule		
Carry Out 500 Hour Service Schedule		
Carry Out 1000 Hour Service Schedule		
Add the Following:		
Change Engine Coolant		
Check Wear Pad "Clearance" & Boom Alignment	✓	If Wear is Out Limits Strip & Remove ALL Pads

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5000hr Service		
Inspect counterweight boss for wear, damage or weld cracks		

OTHER NOTES:

Completed by:	DB / MR Name	Mechanic / Fitter Position	16/07/21 Date
Reviewed by:	Name	Service Admin Position	16/07/21 Date