

Aerial device model 400

PREVENTIVE MAINTENANCE AND INSPECTION REPORT

Nate #	Coriol #			
Unit #	Serial #			
Date: Intervals: 340 PTO hours / 4 months □	PTO Hours: 5000 PTO hours / 5 years			
1000 PTO hours / 1 year L	Other:			
Location:	Work order:			
Visual check of the unit (Clean unit if necessary)				
General condition: Excellent Fair Good Pool	<u> </u>			
Check for weld cracks	Check for damaged or missing parts			
Check for oil leaks	Check structural for wear or deformations			
Operational check	Engine High RPM:			
From the lower control station, cycle the aerial device function	ns through the complete range of motion			
Check holding valves	Operate all functions from upper controls			
Notes:				
Oil temperature at end of operational check:°F or	°C			
Maximum main pressure, holding outrigger function on "retract" : PSI				



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340 Hours/4 Months and 1,000 Hours/1 Year						
	-Ok or completed X -Repairs to be arranged O -Repairs and adjustments made					
1.	In cab		7.	Pedestal		
1	Parking brake-PTO interlock and buzzer		1	Structure (welds intact, no deformation or cracks)		
2	Travel height decal (condition, no change on height)		2	Hydraulic rotation (no leaks, bolts tight)		
3	Boom and outriggers stow lights working		3	Pneumatic rotation (no leaks, bolts tight)		
2.	PTO		4	Electric rotation (set screw tight, wiring condition)		
1	Operation, noise level		5	Hoses and manifolds (routing, condition, no leaks)		
2	Hoses, wires, solenoid condition		6	Rotation bearing inside row, mounting bolts tight		
3	Mounting bolts tight		8.	Turntable		
4	No leaks		1	Structure (welds intact, no deformation or cracks)		
3.	Pump		2	Hoses and manifolds (routing, condition, no leaks)		
1	Noise level		3	Rotation bearing wiper seals (condition, in place)		
2	Mounting bolts tight		4	Rotation bearing outside row, mounting bolts tight		
3	No leaks		5	Main boom pivot pin (Bolt tight, welds intact, nut tight)		
4.	Chassis underside		6	Boom cylinder pivot pin (pin retainer condition, bolt tight)		
1	Hoses (routing, condition, no leaks, exhaust shields)		7	Tilt cylinder (No leak, holding, pins, wiper condition)		
2	Utility body mounting (bolts tight, no cracks)		9.	Boom rotation		
3	Subframe and mounting plates		1	Rotation motor (mounting bolts tight, no leak)		
	(welds intact, no cracks, no rust)		2	Gearbox mounting bolts tight		
4	HP filter, change if necessary (if equipped)		3	Gearbox breather cleanliness		
5	Subframe mounting bolts tight		4	Gearbox oil level		
5.	Lower controls (boom, outriggers, tools)		5	Pinion gear teeth condition		
1	Placards, decals, inclinometer (condition, readable)		6	Rotation bearing gear teeth condition		
2	Control valves (no leaks, rubber boots condition)		7	Pinion to rotation gear backlash		
	free return of each spool		8	Rotation bearing (tilt, smoothness and noise level)		
3	Hoses (routing, condition, no leaks)		10.	Lower boom lift cylinder		
4	Emergency stop-dump operation		1	Tube (no leaks, piping condition, welds intact)		
5	Emergency DC pump switch operation (if equipped)	Ш	2	Chromed rod condition (no rust, scratches, pin holes)	Ш	
6	Engine start-stop operation (if equipped)		3	Pivot bearing secure within cylinder eye		
7	Engine two speed throttle operation (if equipped)		5	Bearing-pin clearance, retaining bolt tight		
8	Upper winch up-down operation		6	Holding valve manifold (no leaks, bolts tight)	\sqcup	
9	Tool outlet quick couplers (condition, dust caps)		11.	Lower boom		
10	Tool outlet pressure (2000 PSI) reading:	Ш	1	Structure (welds intact, no deformation or cracks)		
6.	Hydraulic reservoir and filter		2	Fibreglass insert (clean, no cracks, scratches, chips)		
1	Cover bolts tight, welds intact, no cracks, no leaks		3	All covers in place (remove for inspection)		
2	Shutoff valves fully open and secured		4	Remove any debris from inside boom		
3	Drain water from bottom		5	Hoses assembly (routing, properly attached, no leaks)		
4	Oil level		6	Turret boom pivot pin (retaining bolt tight)	<u> </u>	
5	Breather air filter, change if dirty		7	Pivot pins-bearings clearance		
6	Return filter, check indicator and change if necessary	\perp	8	Fiberglass insert's fasteners tight		
7	Oil condition (cleanliness, color, appearance)		9	Leveling chain, rods and sprocket condition		

	340 Hours/4 Months and 1,000 Hours/1 Year				
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12.	Boom rest		17.	Platform	
1	Boom stow pads condition		1	Mounting frame (welds intact, no deformation, cracks)	
2	Structure (welds intact, no deformation or cracks)		2	Mounting frame and cover (condition, mounting)	
3	Boom tie down system (tightness, air line, no leak)		3	Platform (condition, no cracks, no holes)	
13.	Upper boom lift cylinder		4	Liner (condition, cleanliness)	
1	Tubes (no leaks, piping condition, welds intact)		5	Placards and decals (in place, readable)	
2	Chromed rods condition (no rust, scratches, pin holes)		6	Platform cover (condition, mounting)	
3	Rod wiper condition		7	"D" ring (bolt tight, no deformation or cracks)	
4	Pivot bearing secure within cylinder eye		8	Hoses (no leak, routing, not pinched or pulled)	
5	Pivot pins (Retainer condition, bolt tight)		9	Platform rotation cylinder (no leak, holding, piping)	
6	Holding valves manifold (no leaks, bolts tight)		10	Bearings-pins clearance, retaining bolts tight	
14.	Knuckle and steel boom		11	Platform leveled, not rocking	
1	Structure (welds intact, no deformation or cracks)		12	Platform mounting bolts tight	
2	Hoses assembly (routing, properly attached, no leaks)		18.	Upper boom jib	
3	Pivot pins (Retainer condition, bolt tight, snap rings)		1	Material handling placards (condition, readable)	
4	Scissors' levers (condition, welds, no cracks)		2	Boom angle indicators (condition, rotate freely)	
5	Chains, rods and sprockets condition		3	Jibboom condition (no crack, scratch, cleanliness)	
6	All covers in place (remove for inspection)		4	Jib support wear pads condition	
7	Vinyl cover (condition, rubber bands)		5	Rotation cylinder (no leaks, pins retaining bolts tight)	
15.	Upper boom		or	Rotation gear box & motor (no leaks, bolts tight)	
1	Steel boom (welds intact, no deformation or cracks)		6	Jib extension cylinder (no leaks, retaining bolts tight)	
2	Fibreglass boom (clean, no cracks, scratches, chips)		7	Jib attachments condition (bushings, sheaves, no	
3	Fiberglass boom bolts tight			cracks, welds intact)	-
4	Boom stow pad condition		8	Winch motor and gear box (no leaks, bolts tight)	
5	Boom stow lock down system (operation, tight)		9	Jib covers (condition, cleanliness)	
6	Boom tip weldment (no craks, deformation)		10	Winch rope (wear, thimble, eye, anchoring bolt tight)	
7	Boom tip sprocket (condition, looseness)		11	Jibboom mounting bracket bolts tight	
8	Leveling chain condition, no rust		12	Plastic covers (condition, in place)	
9	Boom tip cover (condition, in place)		19.	Outriggers	
10	Remove any debris from inside upper boom		1	Structure (welds intact, no deformation or cracks)	
16.	Upper controls station		2	Stability marks readable	
1	Placards and decals (condition, readable)		3	Cylinder pins retaining rings in place	
2	Controls (no leak, rubber boots, spools operation)		4	Cylinder tube (no leaks, piping condition, welds intact)	
3	Joystick (rubber boot condition, trigger stroke)		5	Chromed rod condition (no rust, scratches, pin holes)	
4	Hoses (routing, condition, no leaks)		6	Pivot bearings secure within cylinder eyes	
5	Emergency stop-dump operation		7	Holding valves manifold (no leaks, bolts tight)	
6	Emergency DC pump switch operation (if equipped)		20.	Lubrication	
7	Engine start-stop operation (if equipped)		1	Refer to Lubrication chart Page 4-3	
8	Engine two speed throttle operation (if equipped)	Ш			_
9	Tool outlet(s) quick couplers (condition, dust caps)				
10	Tool outlet(s) pressure (2000 PSI) reading:		-		=

	340 Hours/4 Months and 1,000 Hours/1 Year							
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	1,000 Hours / 1 Year (Additional maintenance)							
1	Dielectric test of the insulating booms							
2	Rotation bearing tilt measurement							
3	Check monitoring system (if equipped)							
4	Check anti-vacuum system (if equipped)							
5	Dielectric test on non-conductive joystick (if equipped)							
6	Critical bolts torque check (refer to Page 5-7)							
7	Collect oil sample for analysis (Change oil if necessary)							
	5,000 Hours / 5 Years	(Addition	nal maintenance)					
1	Change rotation gear box oil							
	Leveling system							
2	Inspect the complete leveling system							
3	Leveling chains, clean and inspect each link							
	No rust, jammed rollers or cracks							
4	Leveling rods (wear, cracks, end joint)							
5	Leveling sprockets and idlers, clean and inspect for wear							