

PREVENTIVE MAINTENANCE AND INSPECTION REPORT

Detailed inspection as per attached check list

<u>Item#</u>	<u>Corrective actions</u>	Done (✓) <input type="checkbox"/>
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Repeat operational test on components repaired

Comments:

Mechanic: _____ Inspection certificate installed

Supervisor: _____ Inspection completed date: _____

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			
1 Parking brake-PTO interlock and buzzer	<input type="checkbox"/>	6 Return filter, check indicator and change if necessary	<input type="checkbox"/>
2 Travel height decal (condition, no change on height)	<input type="checkbox"/>	7 Oil condition (cleanliness, color, appearance)	<input type="checkbox"/>
3 Boom and outriggers stow lights working	<input type="checkbox"/>	7. Pedestal	
2. PTO			
1 Operation, noise level	<input type="checkbox"/>	1 Structure (welds intact, no deformation or cracks)	<input type="checkbox"/>
2 Hoses, wires, solenoid condition	<input type="checkbox"/>	2 Hydraulic rotation (no leaks, bolts tight)	<input type="checkbox"/>
3 Mounting bolts tight	<input type="checkbox"/>	3 Electric rotation (retainer tight, wiring condition)	<input type="checkbox"/>
4 No leaks	<input type="checkbox"/>	4 Hoses and manifolds (routing, condition, no leaks)	<input type="checkbox"/>
3. Pump			
1 Noise level	<input type="checkbox"/>	5 Rotation bearing inside row, mounting bolts tight	<input type="checkbox"/>
2 Mounting bolts tight	<input type="checkbox"/>	6 Control valve (no leaks, connector tight)	<input type="checkbox"/>
3 No leaks	<input type="checkbox"/>	7 Junction box (connections tight, no corrosion, cover tight)	<input type="checkbox"/>
4. Chassis underside			
1 Hoses (routing, condition, no leaks, exhaust shields)	<input type="checkbox"/>	8. Turntable	
2 Utility body mounting (bolts tight, no cracks)	<input type="checkbox"/>	1 Structure (welds intact, no deformation or cracks)	<input type="checkbox"/>
3 Subframe and mounting plates (welds intact, no cracks, no rust)	<input type="checkbox"/>	2 Hoses and manifolds (routing, condition, no leaks)	<input type="checkbox"/>
4 HP filter, change cartridge when indicated (display in cab)	<input type="checkbox"/>	3 Rotation bearing wiper seal (condition, in place)	<input type="checkbox"/>
5 Subframe mounting bolts tight	<input type="checkbox"/>	4 Rotation bearing outside row, mounting bolts tight	<input type="checkbox"/>
5. Lower controls			
1 Placards, decals, inclinometer (condition, readable)	<input type="checkbox"/>	9. Boom rotation	
2 Control valves (no leaks, rubber boots condition) operation of each spool	<input type="checkbox"/>	1 Rotation motor (mounting bolts tight, no leak)	<input type="checkbox"/>
3 Hoses (routing, condition, no leaks)	<input type="checkbox"/>	2 Gearbox oil level	<input type="checkbox"/>
4 Emergency stop operation	<input type="checkbox"/>	3 Gearbox breather cleanliness	<input type="checkbox"/>
5 Emergency DC pump switch operation	<input type="checkbox"/>	4 Pinion gear teeth condition	<input type="checkbox"/>
6 Engine start-stop operation	<input type="checkbox"/>	5 Rotation bearing gear teeth condition	<input type="checkbox"/>
7 Engine speed throttle operation	<input type="checkbox"/>	6 Pinion to rotation gear backlash	<input type="checkbox"/>
8 Upper winch up-down operation	<input type="checkbox"/>	7 Rotation bearing (tilt, smoothness and noise level)	<input type="checkbox"/>
9 Tool outlet quick couplers (condition, dust caps)	<input type="checkbox"/>	8 Gearbox mounting bolts tight	<input type="checkbox"/>
10 Tool outlet pressure (2000 PSI) reading: _____	<input type="checkbox"/>	10. Lower boom	
6. Hydraulic reservoir and filter			
1 Cover bolts tight, welds intact, no cracks, no leaks	<input type="checkbox"/>	1 Structure (welds intact, no deformation or cracks)	<input type="checkbox"/>
2 Shutoff valves fully open and secured	<input type="checkbox"/>	2 Hoses assembly (routing, properly attached, no leaks)	<input type="checkbox"/>
3 Drain water from bottom	<input type="checkbox"/>	3 Turret pivot pin (retaining bolts tight)	<input type="checkbox"/>
4 Oil level	<input type="checkbox"/>	4 Boom tip wear pads (condition, bolts tight)	<input type="checkbox"/>
5 Breather air filter, change if dirty	<input type="checkbox"/>	5 Telescopic tubes (fittings tight, no leaks, retainers tight)	<input type="checkbox"/>
		6 Hoses carrier (condition, hoses routing, no leaks)	<input type="checkbox"/>
		11. Lower boom lift cylinders	
		1 Tube (no leaks, piping condition, welds intact)	<input type="checkbox"/>
		2 Chromed rod condition (no rust, scratches, pin holes)	<input type="checkbox"/>
		3 Pivot bearings secure within cylinder eyes	<input type="checkbox"/>
		4 Bearings-pins clearance, retaining bolts tight	<input type="checkbox"/>
		5 Holding valve manifold (no leaks, bolts tight)	<input type="checkbox"/>

340 Hours/4 Months and 1,000 Hours/1 Year

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12. Intermediate boom

- 1 Structure (welds intact, no deformation or cracks)
- 2 Boom end wear pads (condition, bolts tight)
- 3 Boom tip rollers (condition, adjustment tight)

13. Upper boom

- 1 Boom end wear pads (condition, bolts tight)
- 2 Boom tip sheave holders (condition, bolts tight)
- 3 Boom tip sheave (condition, shaft retainer bolts tight)
- 4 Boom tip idler (condition, shaft retainers in place)
- 5 Boom tip stoppers (condition, tight)

14. Intermediate boom winch

- 1 Gear box oil level
- 2 Hoses and tubes (condition, fittings tight, no leaks)
- 3 Gear box retaining bolts tight
- 4 Winch line and splice, thimble (condition, wear)
- 5 Winch line end attachment to drum, bolt tight
- 6 Shaft and bearing condition

15. Telescopic booms' cylinders

- 1 Tube (no leaks, welds intact)
- 2 Chromed rod condition (no rust, scratch, pin holes)
- 3 Tube end's retaining plates (bolts tight)
- 4 Rod end pin (condition, retaining rings in place)
- 5 Trunion holders (retaining bolts tight)
- 6 Holding valves manifold (no leaks, bolts tight)

16. Pole guide

- 1 Structure (welds intact, no deformation or cracks)
- 2 Arms head (tilt bearings and pins condition, bolts tight)
- 3 Idler condition, shaft's spring retainers in place
- 4 All bolts tight

17. Pole guide arms and tilt cylinders

- 1 Tube (no leaks, piping condition, welds intact)
- 2 Chromed rod condition (no rust, scratches, pin holes)
- 3 Pivot bearings condition
- 4 Bearings-pins clearance, retaining bolts tight
- 5 Holding valve manifold (no leaks, bolts tight)
- 6 Hoses (condition, fittings tight, no leaks)

18. Digger hanger

- 1 Digger hanger bracket (welds intact, no cracks)
- 2 Digger lock (condition, bolt tight, shaft retainers in place)
- 3 Digger latch (condition, bolts tight, shaft retainers in place)
- 4 Digger latch cylinder (rod, tube condition, no leak)
- 5 Rollup cable (condition, wear, splices)
- 6 Swing arm pin and lock spring (condition, bolts tight)

19. Digger drive

- 1 Swing arm (condition, welds, bearings)
- 2 Digger pin (condition, retaining bolts tight)
- 3 Gear box oil level
- 4 Motor (condition, no leaks)
- 5 Hoses (Condition, routing, wear, no leaks)
- 6 Output shaft condition

20. Outriggers

- 1 Structure (welds intact, no deformation or cracks)
- 2 Stability marks readable
- 3 Cylinder pins retaining rings in place
- 4 Cylinder tube (no leaks, piping condition, welds intact)
- 5 Chromed rod condition (no rust, scratches, pin holes)
- 6 Pivot bearings secure within cylinder eyes
- 7 Holding valves manifold (no leaks, bolts tight)

21. Platform (if equipped)

- 1 Mounting frame (welds intact, no deformation, cracks)
- 2 Platform (condition, no cracks, no holes)
- 3 Liner (condition, cleanliness)
- 4 Placards and decals (in place, readable)
- 5 "D" ring (bolt tight, no deformation or cracks)
- 6 Hoses (no leak, routing, not pinched or pulled)
- 7 Platform mounting bolts tight

22. Upper controls station (if equipped)

- 1 Placards and decals (condition, readable)
- 2 Controls (no leaks, rubber boots condition)
- 3 Emergency stop operation
- 4 Emergency DC pump switch operation (if equipped)
- 5 Engine start-stop operation (if equipped)
- 6 Engine two speed throttle operation (if equipped)

23. General

- 1 Lubricate the unit (refer to lubrication listing and diagram)

340 Hours/4 Months and 1,000 Hours/1 Year

√ -Ok or completed X -Repairs to be arranged O -Repairs and adjustments made

1,000 Hours / 1 Year (Additional maintenance)

24 General

- | | | | |
|---|--------------------------|--------------------------------|--------------------------|
| 1 Dielectric test of the insulating boom | <input type="checkbox"/> | 5 Change digger gear box oil | <input type="checkbox"/> |
| 2 Rotation bearing tilt measurement | <input type="checkbox"/> | 6 Change winch gear box oil | <input type="checkbox"/> |
| 3 Hydraulic oil analysis (change if necessary) | <input type="checkbox"/> | 7 Change rotation gear box oil | <input type="checkbox"/> |
| 4 Check torque of critical bolts (refer to listing) | <input type="checkbox"/> | | |



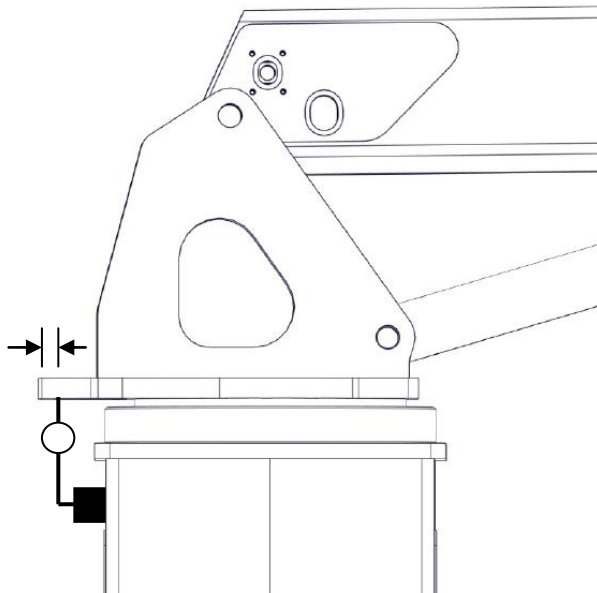
POSI+ Digger derrick 900-50

Rotation bearing tilt measurement

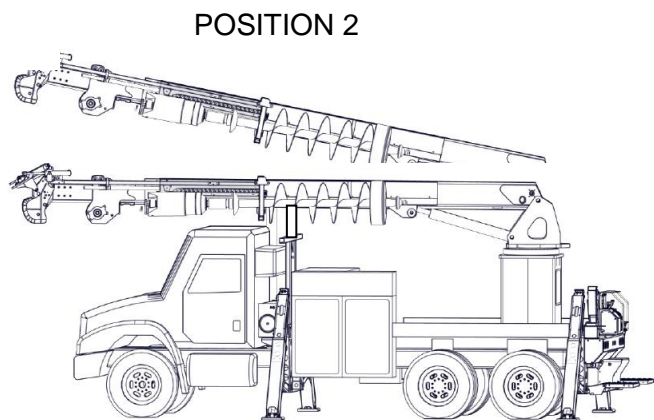
S/N: _____ PTO Hours: _____

By: _____ Date: _____

	Position 1	Position 2
Reading 1	0,000 "	
Reading 2	0,000 "	
Reading 3	0,000 "	



POSITION 1



POSITION 2

Refer to Section 4-7 of this manual for complete tilt measurement procedure.