POSI+ **Line Champ 600**

PREVENTIVE MAINTENANCE AND INSPECTION REPORT

Unit # Serial #

Date: PTO Hours:

Intervals: 340 PTO hours / 4 months ☐ 5000 PTO hours / 5 years ☐

1000 PTO hours / 1 year ☐ Other:

Location: Work order:

Visual check of the unit (Clean if necessary)

General condition: Excellent ☐ Fair ☐ Good ☐ Poor ☐

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 functions 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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PREVENTIVE MAINTENANCE AND INSPECTION REPORT

Detailed inspection as per attached check list ☐

Item#	**Corrective actions**	Done (√)
		☐
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Repeat operational test when repairs are done ☐

Comments:

Mechanic: Inspection certificate installed ☐

Supervisor: Inspection completed date:

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

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1. In cab

1	Parking brake-PTO interlock and buzzer	☐
2	Travel height decal (condition, no change on height)	☐
3	Boom and outriggers stow lights working	☐

2. PTO

1	Operation, noise level	☐
2	Hoses, wires, solenoid condition	☐
3	Mounting bolts tight	☐
4	No leaks	☐

3. Pump

1	Noise level	☐
2	Mounting bolts tight	☐
3	No leaks	☐
4	*Lubricate shaft splines (1 point)*	☐

4. Chassis underside

1	Hoses (routing, condition, no leaks, exhaust shields)	☐
2	Utility body mounting (bolts tight, no cracks)	☐
3	Subframe and mounting plates (welds intact, no cracks, no rust)	☐
4	HP filter, change if necessary (if equipped)	☐
5	Subframe mounting bolts tight	☐
	(1 year) Check torque, 210 ft-lb x 90% = **190 ft-lb**	☐

5. Lower controls (boom, outriggers, tools)

1	Placards, decals, inclinometer (condition, readable)	☐
2	Control valves (no leaks, rubber boots condition)	☐
	operation of each spool, *lubricate if necessary (spray)*	☐
3	Hoses (routing, condition, no leaks)	☐
4	Emergency stop-dump operation	☐
5	Emergency DC pump switch operation (if equipped)	☐
6	Engine start-stop operation (if equipped)	☐
7	Engine two speed throttle operation (if equipped)	☐
8	Upper winch up-down operation	☐
9	Tool outlet quick couplers (condition, dust caps)	☐
10	Tool outlet pressure (2000 PSI) reading:_____	☐

6. Hydraulic reservoir and filter

1	Cover bolts tight, welds intact, no cracks, no leaks	☐
2	Shutoff valves fully open and secured	☐
3	Drain water from bottom	☐
4	Oil level	☐
5	Breather air filter, change if dirty	☐
6	Return filter, check indicator and change if necessary	☐
7	Oil condition (cleanliness, color, appearance)	☐
	(1 year) Collect oil sample for analysis	☐

7. Pedestal

1	Structure (welds intact, no deformation or cracks)	☐
2	Hydraulic rotation (no leaks, bolts tight)	☐
3	Pneumatic rotation (no leaks, bolts tight)	☐
4	Electric rotation (set screw tight, wiring condition)	☐
5	Hoses and manifolds (routing, condition, no leaks)	☐
6	Rotation bearing inside row, mounting bolts tight	☐
	(1 year) Check torque= **315 ft-lb**	☐

8. Turntable

1	Structure (welds intact, no deformation or cracks)	☐
2	Hoses and manifolds (routing, condition, no leaks)	☐
3	Rotation bearing wiper seals (condition, in place)	☐
4	Rotation bearing outside row, mounting bolts tight	☐
	(1 year) Check torque = **280 ft-lb**	☐

9. Boom rotation

1	Rotation motor (mounting bolts tight, no leak)	☐
2	Gearbox oil level	☐
3	Gearbox breather cleanliness	☐
4	Pinion gear teeth condition	☐
5	Rotation bearing gear teeth condition	☐
6	Pinion to rotation gear backlash	☐
7	Rotation bearing (tilt, smoothness and noise level)	☐
8	*Lubricate rotation bearing (1 point)*	☐
9	*Lubricate pinion and bearing gear teeth (spray)*	☐
10	Gearbox mounting bolts tight	☐
	(1 year) Check torque 80 ft-lb x 90% = 72 **ft-lb**	☐

10. Lower boom

1	Structure (welds intact, no deformation or cracks)	☐
2	Fibreglass insert (clean, no cracks, scratches, chips)	☐
3	All covers in place (remove for inspection)	☐
4	Remove any debris from inside boom	☐
5	Hoses assembly (routing, properly attached, no leaks)	☐
6	Turret and knuckle pivot pins (retaining bolts tight)	☐
7	*Lubricate pivot pins bearings (2 points)*	☐
8	Pivot pins-bearings clearance	☐
9	Fiberglass insert's fasteners tight	☐
	(1 year) Check torque, 250 ft-lb x 90% = **225 ft-lb**	☐

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11. Leveling arms

1	Structure (welds intact, no deformation or cracks)	☐
2	Fibreglass inserts (clean, no cracks, scratches, chips)	☐
3	Mounting pins (retaining rings in place)	☐
4	Arms' pivot pins (retaining bolts tight)	☐
5	*Lubricate pivot pins' bearings (4 points)*	☐
6	Bearings-pins clearance	☐

12. Lower boom lift cylinder

1	Tube (no leaks, piping condition, welds intact)	☐
2	Chromed rod condition (no rust, scratches, pin holes)	☐
3	Pivot bearings secure within cylinder eyes	☐
4	*Lubricate rod and tube eye bearings (2 zerks)*	☐
5	Bearings-pins clearance, retaining bolts tight	☐
6	Holding valve manifold (no leaks, bolts tight)	☐
	(1 year) Check torque, 13 ft-lb x 90% = **12 ft-lb**	☐

13. Upper boom lift cylinders (2)

1	Tubes (no leaks, piping condition, welds intact)	☐
2	Chromed rods condition (no rust, scratches, pin holes)	☐
3	Pivot bearings secure within cylinder eyes	☐
4	*Lubricate rod and tube eye bearings (4 points)*	☐
5	Bearings-pins clearance, retaining bolts tight	☐
6	Holding valves manifolds (no leaks, bolts tight)	☐
	(1 year) Check torque, 13 ft-lb x 90% = **12 ft-lb**	☐

14. Knuckle

1	Structure (welds intact, no deformation or cracks)	☐
2	Hoses (no leak, routing, not pinched or pulled,)	☐
3	Hoses retaining brackets (in place, tight)	☐

15. Upper boom

1	Structure (welds intact, no deformation or cracks)	☐
2	Boom stow pad condition	☐
3	Boom stow lock down system (operation, tight)	☐
4	*Lubricate lock down plunger (1 point)*	☐
5	*Lubricate pivot pin's bearing (1 point)*	☐
6	Boom and knuckle pivot pin (retaining bolt tight)	☐
7	Pivot pin-bearing clearance	☐
8	Upper end (bearings & rollers condition, bolts tight)	☐
9	Hose carrier guard condition (remove for inspection)	☐
10	Hose carrier (no wear, flexible, mounting bolts tight)	☐
11	Hoses assembly (routing, properly attached, no leaks)	☐

16. Master leveling cylinder

1	Tube (no leaks, piping condition, welds intact)	☐
2	Chromed rod condition (no rust, scratches, pin holes)	☐
3	Pivot bearings secure within cylinder eyes	☐
4	Bearings-pins clearance, retaining bolts tight	☐
5	Holding valves manifold (no leaks, bolts tight)	☐
	(1 year) Check torque, 13 ft-lb x 90% = **12 ft-lb**	☐

17. Slave leveling cylinder

1	Tube (no leaks, piping condition, welds intact)	☐
2	Chromed rod condition (no rust, scratch, pin holes)	☐
3	Pivot bearings secure within cylinder eyes	☐
4	Bearings-pins clearance, retaining bolts tight	☐
5	Holding valves manifold (no leaks, bolts tight)	☐
	(1 year) Check torque, 13 ft-lb x 90% = **12 ft-lb**	☐

18. Telescopic boom cylinder

1	Tube (no leaks, piping condition, welds intact)	☐
2	Chromed rod condition (no rust, scratch, pin holes)	☐
3	Tube end's retaining plate (bolts tight)	☐
4	Rod end pin (retaining rings in place)	☐
5	Trunion bolts tight	☐
	(1 year) Check torque, 100 ft-lb x 90% = 90 **ft-lb**	☐
6	Holding valves manifold (no leaks, bolts tight)	☐
	(1 year) Check torque, 13 ft-lb x 90% = **12 ft-lb**	☐

19. Telescopic boom

1	Structure (welds intact, no deformation or cracks)	☐
2	Lower end (wear pads condition, bolts tight)	☐
3	Lower end (bearings & rollers condition, bolts tight)	☐
4	Fibreglass boom (clean, no cracks, scratch, chips)	☐
5	Cover in place (remove for inspection)	☐
6	Remove any debris from inside boom	☐
7	Hoses assembly (routing, properly attached, no leaks)	☐

20. Telescopic boom tip

1	Structure (welds intact, no deformation or cracks)	☐
2	Plastic guards condition (remove for inspection)	☐
3	*Lubricate platform shaft bearing (1 point)*	☐
4	Boom tip mounting bolts tight	☐
	(1 year) Check torque, 50 ft-lb x 90% = **45 ft-lb**	☐
5	Platform mounting bracket (welds intact, bolts tight)	☐
	(1 year) Check torque, 60 ft-lb x 90% = **55 ft-lb**	☐

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21. Platform

1	Mounting frame (welds intact, no deformation, cracks)	☐
2	Mounting frame and cover (condition, mounting)	☐
3	Platform (condition, no cracks, no holes)	☐
4	Liner (condition, cleanliness)	☐
5	Placards and decals (in place, readable)	☐
6	Platform cover (condition, mounting)	☐
7	"D" ring (bolt tight, no deformation or cracks)	☐
8	Hoses (no leak, routing, not pinched or pulled)	☐
9	Platform rotation cylinder (no leak, holding, piping)	☐
10	Bearings-pins clearance, retaining bolts tight	☐
11	*Lubricate platform rotation bearing (1 point)*	☐
12	Platform leveled, not rocking	☐
13	Platform mounting bolts tight	☐
	(1 year) Check torque, 50 ft-lb x 90% = **45 ft-lb**	☐

22. Platform elevator (option)

1	Structure (welds intact, no deformation or cracks)	☐
2	Motor, control (no leaks, rubber boots condition)	☐
3	*Lubricate drive screw (spray) & slide bearings (4 points)*	☐
4	**(1 year)** Check torque, 33 ft-lb x 90% = 30 **ft-lb**	☐
5	**(1 year)** Check torque, 18 ft-lb x 90% = 16 **ft-lb**	

23. Upper controls station

1	Placards and decals (condition, readable)	☐
2	Controls (no leaks, rubber boots condition)	☐
3	Spools operation, *lubricate if necessary (spray)*	☐
4	Joystick (rubber boot condition, trigger stroke)	☐
5	*Lubricate joystick linkages (spray)*	☐
6	Hoses (routing, condition, no leaks)	☐
7	Emergency stop-dump operation	☐
8	Emergency DC pump switch operation (if equipped)	☐
9	Engine start-stop operation (if equipped)	☐
10	Engine two speed throttle operation (if equipped)	☐
11	Tool outlet(s) quick couplers (condition, dust caps)	☐
12	Tool outlet(s) pressure (2000 PSI) reading:_____	☐

24. Upper boom jib

1	Material handling placards (condition, readable)	☐
2	Boom angle indicators (condition, rotate freely)	☐
3	Jibboom condition (no crack, scratch, cleanliness)	☐
4	Jib support wear pads condition	☐
5	Rotation cylinder (no leaks, pins retaining bolts tight)	☐
or	Rotation gear box & motor (no leaks, bolts tight)	☐
6	Jib extension cylinder (no leaks, retaining bolts tight)	☐
7	Jib attachments condition (bushings, sheaves, no cracks, welds intact)	☐
8	Winch motor and gear box (no leaks, bolts tight)	☐
	(1 year) Check oil level, fill up if necessary	☐
9	Jib covers (condition, cleanliness)	☐
10	Winch rope (wear, thimble, eye, anchoring bolt tight)	☐
	(1 year) Check torque, 15 ft-lb x 90% = **13 ft-lb**	☐
11	Jibboom mounting bracket bolts tight	☐
	(1 year) Check torque, 60 ft-lb x 90% = **55 ft-lb**	☐

25. 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	*Lubricate tube eye bearing (4 points)*	☐
8	*Lubricate outriggers inner legs (brush)*	☐
9	Holding valves manifold (no leaks, bolts tight)	☐
	(1 year) Check torque, 13 ft-lb x 90% = **12 ft-lb**	☐

26. General **(1Year)**

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)	☐

5,000 Hours / 5 Years (Additional maintenance)

27. Boom rotation system

1	Change gear box oil	☐