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Form Number LLCF-094

	7 4 7 //						G 11"
Vehicle #:			Model:			Serial #:	
	lometer		Hours:				Date:
Ins	spector:			Supervisor:			
ma per	form all inspections, adjustments, repairs, nuals. If tracking PTO hours using an appropriate maintenance based upon a calend both tracking methods.	rovec	method or devic	e, follow the rec	omm	nended hour	ly maintenance intervals. If
Ins	spection Interval						
	Prior to placing the unit into service		Required main	tenance		Major stru	actural inspection
	85 PTO hours / 1 month		500 PTO hours	s / 6 months		1000 PTO	hours / 1 year
	2000 PTO hours / 2 years						•
Ac	ceptable symbols for inspection						
Αt	✓ - Ok or Completed		C – Correc	eted by Inspecto	or		U – Unsafe to Operate
	R – Repair or replacement	need				Not App	olicable of this unit
	<u> </u>		to Placing th				incusic of this time
	Comp			c cint into s		Symbol	Notes
Dor			L .3			Бушьог	Tiotes
	form Pre-Operational Inspection (LLCF-0 tation bearing	93)					
	urntable tilt measurement =						
	draulic Reservoir System						
	heck oil and collect oil sample for analysi	s if n	eeded				
	-		rs / 1 Month (A	Manuals mus	t be	with unit	()
Per	form Pre-Operational Inspection (LLCF-0	93)					
Hy	draulic System						
C	heck oil and collect oil sample for analysi	s if n	eeded				
C	heck for leaks at pedestal						
C	heck for leaks at turntable						
C	heck for leaks at platform						
C	heck for leaks at hose connections in lower	er boo	om				
Fib	perglass						
U	pper boom cleanliness						
U	pper boom surface damage						
L	ower boom insulator cleanliness						
L	ower boom insulator surface damage						
Lui	brication						
R	otation bearing ball race						
R	otation pinion and rotation bearing gear te	eth					
Gei	neral Condition						
C	lean debris from around upper boom cylin	ders					
C	lean debris from around platform leveling	spro	ckets				
C	lean debris and obstructions from around	eleva	tor				

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500 PTO Hours / 6 Months (Perform Checklist for -85 PTO Hrs. first)			
PTO			
Operation			
Noise level			
No leaks			
Mounting bolts tight			
Supplemental Brake Lock			
Operation (holding, bleed-off)			
All Electrical			
Components and wiring (clearances, tightness, support, no insulation damage)			
Connections (secure, no corrosion)			
Battery condition if equipped with lanyard detection system			
Battery			
Mounting (vertically and horizontally secure)			
Electrical connection (secure, no corrosion)			
Routing (cables do not cross, fuses secure)			
Unit Mounting			
Visual inspection of mounting fasteners			
Subbase mounting (fasteners secure, welds intact, no cracks)			
Subbase structure (welds intact, no cracks)			
Pedestal mounting (welds intact, no cracks, bolts tight)			
Pedestal structure (welds intact, no cracks)			
Boom rest (welds intact, no deformation or cracks)			
Body mounting (welds intact, no cracks, bolts tight)			
Hydraulic Reservoir			
Mounting (cap screws tight, welds intact, no cracks)			
No leaks			
Shutoff valve fully open			
Drain water from bottom			
Filters			
Change return line filter			
Chassis Winch			
Mounting secure			
Drive line			
Gearbox oil level			
Brake oil level			
Operation			
No leaks			
Winch line			
Winch line anchor point			

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Mounting (welds intact, no deformation or cracks) Mounting (welds intact, no deformation or cracks) Outrigger motion alarm operation Aerial device/outriggers selector valve (operation, no leaks) Outrigger interlock system (operation holding w/o drift) Check cylinder for signs of rubbing Structures (welds intact, no deformation or cracks) Pins and retainers secure, retaining cap screws tight No leaks Holding valves (operation, no leaks) Chromed rod condition Pump Noise level No leaks Mounting bolts tight Four bolt flange bolts tight Drive line Hoses and tubes (routing, condition) Placards (condition, readable) Control valves (operation, no leaks) Hydraulic System Pressure Main system pressure Maximum tool system pressure Standby pressure Maximum tool system pressure Standby pressure Placards (condition, readable) Lower Control Station Placards (condition, readable) Lower control Valve (operation, no leaks) Secondary stowage DC pump (operation, no leaks) Station selector valve (operation, no leaks) Padestal Structure (welds intact, no deformation or cracks) Structure (welds intact, no deformation or cracks)
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Secondary stowage DC pump (operation, no leaks) Station selector valve (operation, no leaks) Pedestal
Secondary stowage DC pump (operation, no leaks) Station selector valve (operation, no leaks) Pedestal
Station selector valve (operation, no leaks) Pedestal
Structure (welds intact, no deformation or cracks)
Hoses and tubes (routing, condition)
No leaks
Rotary joint drive pin (condition, cotter pin in place)
Rotary joint mounting bolts tight
Turntable
Structure (welds intact, no deformation or cracks)
Lower boom pin (forged pin retainer condition, bolt tight and retaining rings in place)
Lower boom cylinder pivot pin (retainer condition, bolt tight and retaining rings in place)
Hoses and tubes (routing, condition) no leaks
Leveling chain anchor weldment (cap screws and nuts tight)
Rotary joint (loose mounting bolts)
Slip ring (loose mounting bolts)

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Rotation Bearing and Gearbox			
Rotation bearing cap screws visual inspection			
No leaks			
Pinion gear teeth condition			
Rotation bearing gear teeth condition			
Gearbox mounting bolts visual inspection			
Rotation motor mounting bolts tight			
Operation (smoothness and noise level)			
Check eccentric ring lock bar bolt tightness			
Gearbox internal lost motion			
Rotation bearing inspection and measurement [after 0.050" (127 mm) increased			
wear from initial measurement]			
Lower Boom			
Structure (welds intact, no deformation or cracks)			
Lower cylinder pivot pin (retainer condition, bolt tight and retaining rings inplace)			
Visually inspect leveling chains/rods			
Visually inspect jam nuts on leveling chain turnbuckles (in place, tight)			
Remove any debris from inside lower boom			
Covers in place			
Insulator fasteners tight			
Lower boom cylinder pivot pins			
Slide pad bearings (loose cap screws)			
Lower boom pin			
Extension cylinder mounting (loose cap screws)			
Lower platform leveling cylinder mounting pins)			
Boom slide blocks (cap screws tight, wear)			
Lower Boom Cylinder			
Bearings secure within cylinder eyes			
Operation			
Hydraulic leveling cylinder (operation, mounting)			
Boom tip weldment (welds intact, no deformation or cracks)			
Elbow			
Elbow cover (in place, condition)			
Upper boom drive mechanism link pins (retaining rings in place, bolts tight, welds			
intact on flanges) Elbow bearing visual inspection			
Measure upper boom drive link bearing wear			
Elbow leveling chain sprocket (retaining ring and key in place, socket head cap screws tight)			
Leveling system pivot tube (cap screws tight)			
Elbow pivot pin (retainer condition, cap screw secure)			
Parallel Links and Elevator Arms (LR860E70 units)			
Structure (welds intact, no deformation or cracks)			
Pivot pins (retainer condition, no deformation)			
2.1. or plane (commer constitution) no determination)	I	1	

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Elevator Pedestals	
Wear pads (condition, mounting)	
Upper Boom	
Structure (welds intact, no deformation or cracks)	
Fiberglass condition (clean, undamaged)	
Visually inspect jam nuts on leveling chain turnbuckle	
for tightness	
Visually inspect leveling chains/rods	
Hose assembly (routings, condition)	
No leaks	
All covers inplace	
Upper boom stow lock down strap (condition, all parts in place, lock works)	
Upper boom stow pad (condition, in place)	
Boom tip weldment (welds intact, no deformation or cracks)	
Visually inspect the boom tip fasteners for tightness	
Lanyard attachment welds	
Loose boom tip sprocket	
Upper Boom Cylinders	
Cylinder attachment pins (retainer condition, bolts tight with retaining rings in place)	
Bearings secure within cylinder eyes (base end)	
Operation	
No leaks	
Holding valves (operation, no leaks)	
Chromed rod condition	
Pinretainers secure	
Boom Tip	
Platform pin	
Tilt bracket (welds intact, deformation or cracks)	
Tilt bracket covers	
Platform	
Mounting bracket (welds intact, no deformation or cracks)	
Mounting bracket covers (condition, mounting)	
Platform mounting bolts tight	
Lanyard attachment welds	
Platform (condition, cleanliness)	
Platform angle (leveling system tension correct)	
Liner (condition, cleanliness)	
Platform liner retention system (condition, in place)	
Placards (condition, in place, readable)	
Platform cover (condition, mounting)	
Platform control cover {condition, mounting)	
Valve cover (condition, mounting)	
Hoses (no leaks, routing, not pinched or pulled)	
Fall protection system {condition, in place}	

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Platform accessory mounting brackets, i.e. saw or pruner (condition, mounting)	
Platform Rotator	
Operation	
No leaks	
Fasteners tight	
Rotary actuator (inner/outer cap screws in place and tight	
Platform Tilt System	
No leaks	
Operation	
Upper Controls Station	
Operation (metering, proper direction)	
Operation placard (condition, readable)	
No leaks	
Mechanical linkage (operation, lubrication)	
Hydraulic emergency stop operation	
Interlock linkage adjustment	
Rubber boot	
Tool Circuits	
Quick disconnects (condition, operation, no leaks)	
Quick disconnect dust caps (condition, inplace)	
Hoses (condition, routing, no leaks)	
Operation	
Hose reel operation	
Lubrication	
Outrigger inner leg outer surface	
Control handle linkage	
Leveling chains	
Rotation gearbox output shaft upper bearing	
Required Maintenance (Regardless of Ho	ours)
Annual Testing	
Vehicle inspection is up to date	
Dielectric test unit	
Dielectric test platform liner(s)	
Confirmation test of single hand control(s)	
Atmospheric Vents (visually inspect all, verify operation)	
Test hydraulic temperature indicator system functionality (if equipped) by activating test switch located in cab, with the chassis running and the PTO engaged; visually inspect temperature sensors and lead wires for damage.	

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1000 PTO Hours / 1 yr. (Perform Checklist for - 500 PTO Hrs. first)		
Chassis Underside		
Hoses (routing, condition, no leaks)		
Exhaust shields		
Hydraulic Reservoir and System		
Drain water from bottom of reservoir		
Collect oil sample for analysis		
Clean suction filter element		
Reservoir cover gasket condition		
Change filler breather cap		
Clean or change filler hole strainer		
Rotation Bearing		
Cap screw annual torque inspection		
Rotation bearing inspection and measurement [before		
0.050" (127 mm) increased wear from initial measurement] ²		
Upper Controls		
Hoses and tubes (routing, condition)		
Placards (condition, readable)		
Single handle controls (condition, functionality)		
Upper Boom Tip		
Mounting to upper boom secure		
Pedestal		
Rotary joint mounting bolts tight		
Lower Boom		
Insulator fasteners tight		
Gearbox		
Rotation gearbox mounting cap screw annual		
torque inspection		
Elbow		
Upper boom drive link bearings (use link gauge or with		
pin-to-pin measurement)		
Fiberglass		
Seal between insert and steel tubes		
Insert is clean and waxed		
Insert bond		
Seal between upper boom and steel tube		
Structures		
All structures and welds included on 500 hour/6 month checklist (no significant corrosio	n)	

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2000 PTO Hours / 2 yr. (Perform Checklist for - 1000	0 PTO Hrs. first)
Hydraulic Reservoir and System	
Change hydraulic oil	
Flush hydraulic system	
Clean inside of reservoir	
Rotation Bearing and Gearbox	
Pinion to rotation bearing gear backlash	
Lubrication	
Pump input shaft splines	
Clean suction filter	
Major Structural Inspection (Perform this inspection after the first 15 yrs. of service and ev	ver 10 yrs. thereafter)
Load Test	
Perform major structural load test	
Cycle Times	
Check all aerial functions for any operation faster than specified cycle times	
Upper Boom	
Self-lubricating bearings in upper boom, drive link, and idler link	
Upper Boom Lift Cylinder	
Rod eye structure (welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Spherical bearing at rod eye and cylinder eye3	
Boom Elbow	
Self-lubricating bearings self-lubricating sprocket	
Platform Leveling Cylinders	
Rod eye structure(welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Bushing bearings located at the rod eye and cylinder eye'	
Lower Boom	
Self-lubricating bearings in lower boom for boom pivot pin	
Lower Boom Lift Cylinder	
Rod eye structure(welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Spherical bearing at rod eye and cylinder eye3	
Upper Boom Tip	
Self-lubricating bearings for platform leveling sprocket3	
Outrigger Cylinder	
Rodeye structure (welds intact, no deformation or cracks	
Parallel Links and Elevator Arms (LR860E70 Units)	
Self-lubricating bearings inlinks and arms for each elevator pivot pin ³	

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Lower Leveling Cylinder (Rotator Package)	
Rodeye structure (welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Self-lubricating bearings at rod eye and cylinder	
Upper Boom Drive System Cylinders	
Rod eye structure (welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Self-lubricating bearings at rod eye and cylinder eye	
Upper Boom Drive System Links	
Self-lubricating bearings at pinned links	
Elbow	
Cylinder eye structure (welds intact, no deformation or cracks)	
Platform Rotate Cylinder (Rotator Package)	
Rod eye structure (welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Self-lubricating bearings at rod eye and cylinder	
Upper Leveling Cylinder (Rotator Package)	
Rod eye structure (welds intact, no deformation or cracks	
Cylinder eye structure (welds intact, no deformation or cracks)	
Self-lubricating bearings at rod eye and cylinder eye	
Notes:	
Inspector's Signature:	