



AT-40 Crane Service Schedule

Date: 20-1 Job No.: _____ Tech. Name: Mar Robinson
 Serial No.: _____ Service Type: _____
 Owner's Details: _____
 Job Location: _____
 Make Of Equipment: _____ Model: _____ Serial No.: 400081
 Carrier Engine Make: _____ Model: _____ Serial No.: _____
 Registration / Plant No.: 970 Vehicle Kms: 52090 Hours: 5274

Note: ALL items MUST be "Ticked" if carried out / "Crossed" if not carried out / marked "N/A" if not applicable.

R = Repair C = Completed

R	C	250 / 750 Hour Service Schedule	Comments
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CABIN & CONTROLS

<input checked="" type="checkbox"/>		Check for EMERGENCY Steer Pump Errors	Self Test
<input checked="" type="checkbox"/>		Check Air Conditioning & Condition of Cabin Filter	Clean/replace filter if required
<input checked="" type="checkbox"/>		Check 2/4WD & HI/LO Operation	
<input checked="" type="checkbox"/>		Check Diff Lock Operation	
<input checked="" type="checkbox"/>		Check Holding Brake Operation	
<input checked="" type="checkbox"/>		Check All Emergency Stop Button Operation	
<input checked="" type="checkbox"/>		Check Reversing and Winch Camera Operation	
<input checked="" type="checkbox"/>		Check AM/FM Radio Operation	
<input checked="" type="checkbox"/>		Check Heater Operation	
<input checked="" type="checkbox"/>		Check Wiper Operation	
<input checked="" type="checkbox"/>		Refill Windscreen Washer Water & Test Operation	
<input checked="" type="checkbox"/>		Check Front Spring Lockout Operation	200 bar activation pressure
<input checked="" type="checkbox"/>		Check Park Brake Operation	
<input checked="" type="checkbox"/>		Check Foot Valve Operation	
<input checked="" type="checkbox"/>		Check ALL Warning Lights and Buzzers	
<input checked="" type="checkbox"/>		Check ALL Instruments for Operation/Illumination	
<input checked="" type="checkbox"/>		Check Indicators	
<input checked="" type="checkbox"/>		Check Hazard Lights	
<input checked="" type="checkbox"/>		Check Horn(s)	
<input checked="" type="checkbox"/>		Check Hyd. Sys. Base Pressure	Refer Operator Manual for Pressures
<input checked="" type="checkbox"/>		Check Hyd. Sys. Max Pressure	Refer Operator Manual for Pressures
<input checked="" type="checkbox"/>		Check Steer Pressure at Full Lock	Refer Operator Manual for Pressures
<input checked="" type="checkbox"/>		Check Articulation Sensor Operation	
<input checked="" type="checkbox"/>		Check ALL Hydraulics for Correct Operation	
<input checked="" type="checkbox"/>		Check Joystick Operation	
<input checked="" type="checkbox"/>		Check Clearance Lights	
<input checked="" type="checkbox"/>		Check Head Lights HI/LO	
<input checked="" type="checkbox"/>		Check Stop Lights	
<input checked="" type="checkbox"/>		Check Reverse Light(s) & Alarm	
<input checked="" type="checkbox"/>		Check ALL Work Lights	
<input checked="" type="checkbox"/>		Check Low Air Warning Devices	
<input checked="" type="checkbox"/>		Check Rotating Light Operation	
<input checked="" type="checkbox"/>		Check Interior Light Operation	

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R	C	250 / 750 Hour Service Continued	Comments
		Check Cabin for Water Leaks	
		Check Seat Mounting & Operation	
		Check Seat Belt Condition & Operation	
		Check Door Locks & Catches for Operation	

ENGINE BAY & TRANSMISSION

		Clean or Replace Air Filter (Outer Element Only)	
		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	Check for tightness, cracking/splitting
		Tighten Intake Hose Clamps	
		Check Fan 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	
		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	
		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 & TRANSFER CASE

		Check Planetary Reduction (s) Oil Level	
		Check Transfer Case Oil Level	Run at 1000 rpm for 1 min, then check immediately
		Check Transfer Case Cooler System for Flow & Leaks	
		Check All Differentials Oil Level	
		Check Susp Cylinder - Condition / Leaks / Positions	
		Check Suspension Cylinder Pivots	
		Check All Suspension Components - wear / tightness	
		Check All Steering Components - wear / tightness / hoses	
		Check centre bearing and housing; Jack Shaft & Front Shaft	
		Check ALL Drive / PTO / Jack Shaft Universal Joints	
		Lube ALL Universal Joints on Drive Line / PTO Shaft	
		Check Wheel Bearing Play	
		Check Brake Lining Thickness / Wear - record thickness	Minimum Thickness = 2 mm
		Check brake rotor thickness	Minimum Thickness = 37 mm
		L/H lining outer	inner
		R/H lining inner	outer
		L/H rotor	R/H rotor
		Axle 1	
		Axle 2	
		Axle 3	
		Drain ALL Air Tanks of Water / Sediments	
		Check ALL Steering Pins / Bearings for Wear	
		Lube ALL Steering Pins / Bearings	Use SBX2 Grease
		Tighten Steering Pin Bolts	Torque setting 420Nm/310lb.ft
		Check Service Brake Operation	
		Check Brake Expanding Cylinders	

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R	C	250 / 750 Hour Service Continued	Comments
	/	Check Low Air Warning Devices	
	/	Lube Suspension Cylinder Bearings	Use SBX2 Grease
	/	Check All Covers, Panels for Security	
	/	Inspect steering hoses	As per Service bulletin SB0069
	/	Inspect steering cylinders	

BOOM ASSEMBLY

	/	Adjust ALL Retract & Extension Ropes/Chains	Refer Operator's Manual for Spec.
	/	Check 2 nd Extension Cylinder Anchor Pins	
	/	Re-tension Tele Secondary Cylinder Hoses	Refer Service Bulletin EAF SA 19 001
	/	Retension internal secondary cylinder hose fittings	
	/	Check Winch Gearbox Oil Level	
	/	Check Winch Rope Condition & Lubrication	
	/	Check Winch Unit Mountings & Bolts & Mounting Hinge	
	/	Visual Inspection of ALL Boom Sect. Damage/Bend	
	/	Lube All Boom Sections, Sheaves & Wear Pads	
	/	Inspect Compensating Sheave Bearings	
	/	Inspect ALL Sheaves on Boom Assy.	
	/	Check Boom Rear Pivot Pins/Bearings for Movement	Adjust if required
	/	Lube Rear Boom Pivot Bearings	Use SBX2 Grease
	/	Check Luff Cyl. Top/Bott Pins & Bearings Movement	
	/	Lube ALL Luff Cyl. Bearings	Use SBX2 Grease
	/	Inspect retract assemble & wear pads	remove top inspection hatch cover
	/	Inspect front side wear pad adjustment & fasteners	

CHASSIS & FINAL CHECKS

	/	Check Center Pivot Bearings/Pins for Movement	Refer Service Bulletin SB0105, drawing T151816
	/	Check counter weight pins/circlips for correct fitment	
	/	Lube Centre Pivot Bearings ALL Points	Use SBX2 Grease
	/	Check Hydraulic Reservoir Oil Level	Boom Closed Up (Lowered & Retracted)
	/	Check Hydraulic Oil Level Sensor Operation	Refer to manual for spec. service
	/	Check Central Lubrication System	
	/	Check Hoist Limit Switch	
	/	Check Lower Limit Switch	
	/	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	
X	/	Check Tyre Pressures & Tyre Condition	120psi Front & Back NEEDS REAR TYRES
	/	Carry Out FULL Function/Operate Test Drive	
	/	Transmission Pre-select Downshift to 3rd	
	/	Check Exhaust Brake Operation	
	/	Lift Test Weight if Available	
	/	Check LMI Calibration	
	/	Re-Tension ALL Wheel nuts	Refer Operators Manual for Tension Settings
	/	Top up auto greaser	Use SBX2 Grease

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R	C	500 Hour Service Schedule	Comments
		Carry Out 250 Hour Service Schedule	
		<i>Add the Following:</i>	
		Change Engine Oil Filter	
		Change Engine Oil	
		Change Hydraulic Oil Return Filter	
		Change Transfer Case Oil	
		Change All Differential Oil	
		Change All Planetary/Reduction(s) Oil	
		Adjust Rear Boom Pivot Bearings	
		Change Winch Gearbox Oil	
		Brakes - Air Dryer - Replace Granulate Cartridge	NOT Applicable on 100 Hour Service

R	C	1000 Hour Service Schedule	Comments
		Carry Out 250 / 750 Hour Service Schedule	
		Carry Out 500 Hour Service Schedule	
		<i>Add the Following:</i>	
		Change Primary (Outer) Air Filter Element	NOT Applicable on 100 Hour Service
		Change Safety (Inner) Air Filter Element	NOT Applicable on 100 Hour Service
		Replace Fuel Filter Element	
		Replace Fuel Pre-filter Element	
		Adjust Valve Clearances	
		Change Cylinder Head Valve Cover Gasket	Refer to Service Manual for Spec.
		Check & Clean Engine Breather	
		Sample Hydraulic Oil using Kit PP2128300	
		Change Auto Transmission Oil and filters	At 1000hrs or when instructed by oil/filter life monitor if sooner,
			Not applicable on 100 Hour Service. Not applicable to transmissions filled with synthetic oil.

R	C	2000 Hour Service Schedule	Comments
		Carry Out 250 / 750 Hour Service Schedule	
		Carry Out 500 Hour Service Schedule	
		Carry Out 1000 Hour Service Schedule	
		<i>Add the Following:</i>	
		Change Engine Coolant	
		Check Wear Pad "Clearance" & Boom Alignment	If Wear is Out Limits Strip & Remove ALL Pads
		Check Steering Accumulator Charge Pressure	50 Bar
		Check Front Suspension Accumulators Charge Pressure	50 Bar
		Check Rear Suspension Accumulators Charge Pressure	70 Bar

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R	C	100 Hour First Service Schedule	Comments
		Carry Out 250 / 750 Hour Service Schedule	
		Carry Out 500 Hour Service Schedule	
		Carry Out 1000 Hour Service Schedule	
		<i>Add the Following:</i>	
		Tighten ALL Hose Clamps	
		Check Tension of ALL Engine mounts	Refer Parts Manual for Tension Settings
		Re-Tension ALL & Suspension Bolts	Refer Operators Manual for Tension Settings
		Re-Tension Centre Pivot Pins - Upper/Lower	Refer Operators Manual for Tension Settings
		Check & Adjust All Axle Alignment to Centre	Refer to Service Manual
		Tighten ALL Drive Shaft / Jack Shaft Flange Bolts	

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R	C	Additional Faults Identified:
		1 AC BROKEN
		2 NEEDS REAR TYRES
		3 REPLACE BATTERIES
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R	C	Additional Faults Identified Continued:
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Service carried out by: MR Sheldon

Signature: [Signature]

~~Service carried out by:~~ Sheldon

Signature: [Signature]