



AT-40 Crane Service Schedule

Date: 23-2-26 Job No.: _____ Tech. Name: Christian C
 Serial No.: _____ Service Type: 500 / 1000HR
 Owner's Details: _____
 Job Location: _____
 Make Of Equipment: FRANNA Model: AT 40 Serial No.: 400081
 Carrier Engine Make: _____ Model: _____ Serial No.: _____
 Registration / Plant No.: XQ59WF/970 Vehicle Kims: 68-456 Hours: 6996

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	Small crack in RH Rear lens
<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)	Replaced
	✓	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	Replaced
	✓	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	
	/	Check Tyre Pressures & Tyre Condition	120psi Front & Back
	/	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 Replaced faulty alternator
		2
		3 Replaced idler + tensioner pulleys
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		5 Replaced drive belt
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		7 Small crack in tail light lens
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R	C	Additional Faults Identified Continued:	
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Service carried out by: CHRISTIAN CORNELL Signature: C. Cornell

~~Service carried out by:~~ S.V. Signature: Sherop. V

