



QF23Q.03  
Jun-19

## AT-40 Crane Service Schedule

Date: 16-1-26 Job No.: \_\_\_\_\_ Tech. Name: MAT R  
 Serial No.: 400081 Service Type: 250 HR  
 Owner's Details: \_\_\_\_\_  
 Job Location: \_\_\_\_\_  
 Make Of Equipment: \_\_\_\_\_ Model: \_\_\_\_\_ Serial No.: \_\_\_\_\_  
 Carrier Engine Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial No.: \_\_\_\_\_  
 Registration / Plant No.: XQ59 NF Vehicle Kms: 63413 Hours: 6742

**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	<u>CONDENSER LEAKING</u>
<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		<u>NOT WORKING</u>
<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		<u>PLAY UP AGAIN CLEANED IT SEEM OK NOW</u>
<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
	<input checked="" type="checkbox"/>	Check Cabin for Water Leaks	
	<input checked="" type="checkbox"/>	Check Seat Mounting & Operation	
	<input checked="" type="checkbox"/>	Check Seat Belt Condition & Operation	
	<input checked="" type="checkbox"/>	Check Door Locks & Catches for Operation	

#### ENGINE BAY & TRANSMISSION

	<input checked="" type="checkbox"/>	Clean or Replace Air Filter ( Outer Element Only )	
	<input checked="" type="checkbox"/>	Visual Inspect Radiator Screen & Cooler Cores for Blockage	
	<input checked="" type="checkbox"/>	Check Coolant & Inhibitor Level / Concentration	
	<input checked="" type="checkbox"/>	Check ALL Coolant / Heater System Hoses	
	<input checked="" type="checkbox"/>	Visual Inspect Air Intake Pipes & Hoses	Check for tightness, cracking/splitting
	<input checked="" type="checkbox"/>	Tighten Intake Hose Clamps	
	<input checked="" type="checkbox"/>	Check Fan Coupling	
	<input checked="" type="checkbox"/>	Check Alternator & A/C Compressor Mount/Bolts	
	<input checked="" type="checkbox"/>	Check Engine Drive Belt	
	<input checked="" type="checkbox"/>	Check Engine Oil Level	
	<input checked="" type="checkbox"/>	Check Engine, Lines & Hoses for Abrasion & Position	
	<input checked="" type="checkbox"/>	Check Engine Piping for Leaks	
	<input checked="" type="checkbox"/>	Visual Inspect Engine Mount(s) Condition	
	<input checked="" type="checkbox"/>	Check for Fuel Leaks ALL Points	
	<input checked="" type="checkbox"/>	Check for Oil Leaks in Engine Area	
	<input checked="" type="checkbox"/>	Check Hydraulic Pump PTO, Mounting & Bolts	
	<input checked="" type="checkbox"/>	Check Transmission Oil Level	
	<input checked="" type="checkbox"/>	Check Oil Service Condition Through Gear Selector Pad	Replace oil and filter if lower than 30%
	<input checked="" type="checkbox"/>	Check Filter Service Condition Through Gear Selector Pad	Replace oil and filter if display is reading (LO)

#### DRIVE TRAIN & TRANSFER CASE

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



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

#### BOOM ASSEMBLY

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

#### CHASSIS & FINAL CHECKS

	<input checked="" type="checkbox"/>	Check Center Pivot Bearings/Pins for Movement	Refer Service Bulletin SB0105, drawing T151816
N/A	<input checked="" type="checkbox"/>	Check counter weight pins/circlips for correct fitment	
	<input checked="" type="checkbox"/>	Lube Centre Pivot Bearings ALL Points	Use SBX2 Grease
	<input checked="" type="checkbox"/>	Check Hydraulic Reservoir Oil Level	Boom Closed Up (Lowered & Retracted)
	<input checked="" type="checkbox"/>	Check Hydraulic Oil Level Sensor Operation	Refer to manual for spec. service
	<input checked="" type="checkbox"/>	Check Central Lubrication System	
	<input checked="" type="checkbox"/>	Check Hoist Limit Switch	
	<input checked="" type="checkbox"/>	Check Lower Limit Switch	
	<input checked="" type="checkbox"/>	Check ALL Hydraulic Cyl's for Damage/Leaks	
	<input checked="" type="checkbox"/>	Check ALL Hydraulic Hoses for Damage/Leaks	
	<input checked="" type="checkbox"/>	Check ALL Wiring for Damage & Correct Routing	
	<input checked="" type="checkbox"/>	Check for Air Leaks ALL Points	
	<input checked="" type="checkbox"/>	Check Battery Electrolyte Level	
	<input checked="" type="checkbox"/>	Clean & Check Battery Terminals-Holding Clamp	
	<input checked="" type="checkbox"/>	Check Tyre Pressures & Tyre Condition	120psi Front & Back
	<input checked="" type="checkbox"/>	Carry Out FULL Function/Operate Test Drive	
	<input checked="" type="checkbox"/>	Transmission Pre-select Downshift to 3rd	
	<input checked="" type="checkbox"/>	Check Exhaust Brake Operation	
	<input checked="" type="checkbox"/>	Lift Test Weight if Available	
	<input checked="" type="checkbox"/>	Check LMI Calibration	
	<input checked="" type="checkbox"/>	Re-Tension ALL Wheel nuts	Refer Operators Manual for Tension Settings
	<input checked="" type="checkbox"/>	Top up auto greaser	Use SBX2 Grease

L/H/F + L/H/m Low TYRES

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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	
		Add the Following:	
		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
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R	C	Additional Faults Identified Continued:
		35
		36
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		43
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		61
		62

Service carried out by:

*Mat A*

Signature:

*[Signature]*

Service carried out by:

*Sheldon ✓*

Signature:

*[Signature]*

