



Thorough Examination of Mobile Crane - Checklist Report

Checklist - Report Number:	ATS-07-24-4028-MC-02	Equipment Cert. No:	ATS-07-24-4028-MC-01
Owner name and address:	HILONG OIL SERVICE AND ENG CO, Iraq	Date of Examination	11-July-2024
Location of Examination:	HILONG RIG 100 / R-644	Serial No.:	LXGCPA425JA008507
Manufacturer / Maker:	XCMG /Model: QY50KA	Crane Type / Model No.:	XZJ5428JQZ50K
Date of Manufacture	2018	Chassis No:	LXGCPA425JA008507
SWL:	50 T	Plate registration No:	1087 / BASRA

Inspected item / Point	Comments	Accept	Reject
Marking of Identification Number		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Marking of controls		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Marking of warning/safety notes		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Crane charts		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine (gearbox, filters, belts, pulleys, radiator, hoses, mechanical parts, etc.)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brakes, discs		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tyres		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wheels		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Crane chassis		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outrigger jacks		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outrigger pins		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outrigger controls		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outrigger level gauges		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outrigger pads / mats		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fastenings		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Valves		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic tank		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic cylinders		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic cylinder fittings		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel tank		<input checked="" type="checkbox"/>	<input type="checkbox"/>
RCI/RCL		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Limit switches		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lubrication		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slew section structure		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slewing mechanism (jib at max. radius)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pipe work and connections		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic system operation high & low limits		<input checked="" type="checkbox"/>	<input type="checkbox"/>





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Fluids: levels, leakage	Fuel:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Hydraulic Oil:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Radiator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Engine & Gear box Oil:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Superstructure		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rotex gear / rotating frame		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Boom and boom cylinder		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jib		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fly jib and mounting attachment	N/A - Not in use	<input type="checkbox"/>	<input type="checkbox"/>
Crane attachments		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Main hook block condition	SN: FE00171 / SWL: 50T / 600 Kg Weight	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Axu. Hook block condition	SN: FE000129 / SWL: 4.5 T	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pulleys		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sheaves		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drums		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wire ropes: condition, reeving, functionality	Main hoist: 18 mm Dia. / IWRC/ 180 m length Auxiliary Hoist: 18 mm Dia. / IWRC/ 125 m length	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ladders		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Walkways		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guard rails		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hand holds		<input checked="" type="checkbox"/>	<input type="checkbox"/>
cabs controls/levers	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cabs gauges	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cabs seating, seatbelts	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cabs doors, windows and mirrors	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>





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Cabs: heat and ventilation systems	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Windscreen wipers and washers	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cabs: Falling Object Protection FOP	Operator:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Driver:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Counterweights		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist and luffing winches and brakes		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cables and wiring		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slip rings		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guards: presence, condition		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery, wires, electricity		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sensors and limit switches		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front and tail lights, warning beacon, and warning lights		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alarm sounds		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overload alarm / protection		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Horn		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Anti-two block		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Crane: functionality (Hoist, swing, boom up/down, boom telescoping, steering, brakes)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other observation(s)		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

Inspector Name, Qualifications & signature:

Hasan Omran

NDT Level II (VT, MT, PT, UT)
LEEA Registered Technician

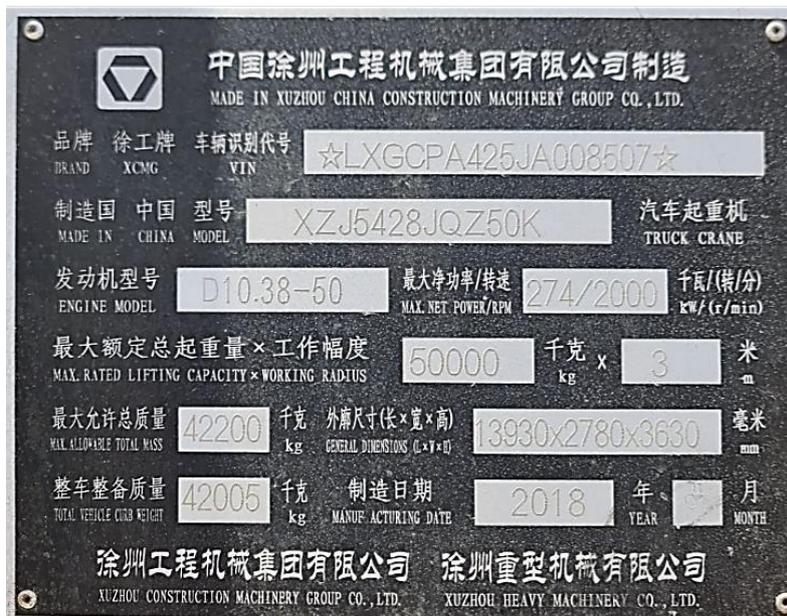
ATS Stamp:





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Observations and Pictures:





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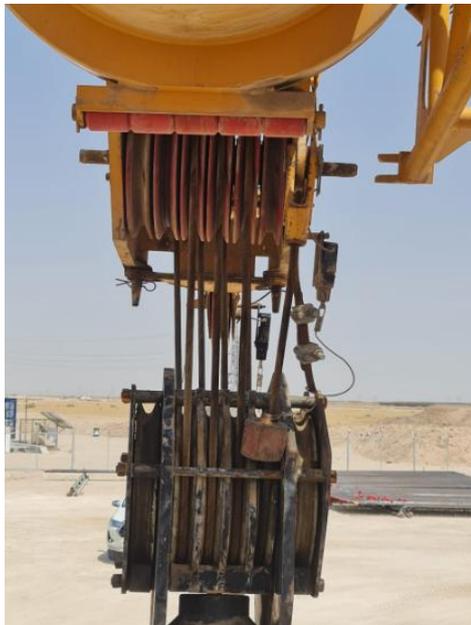


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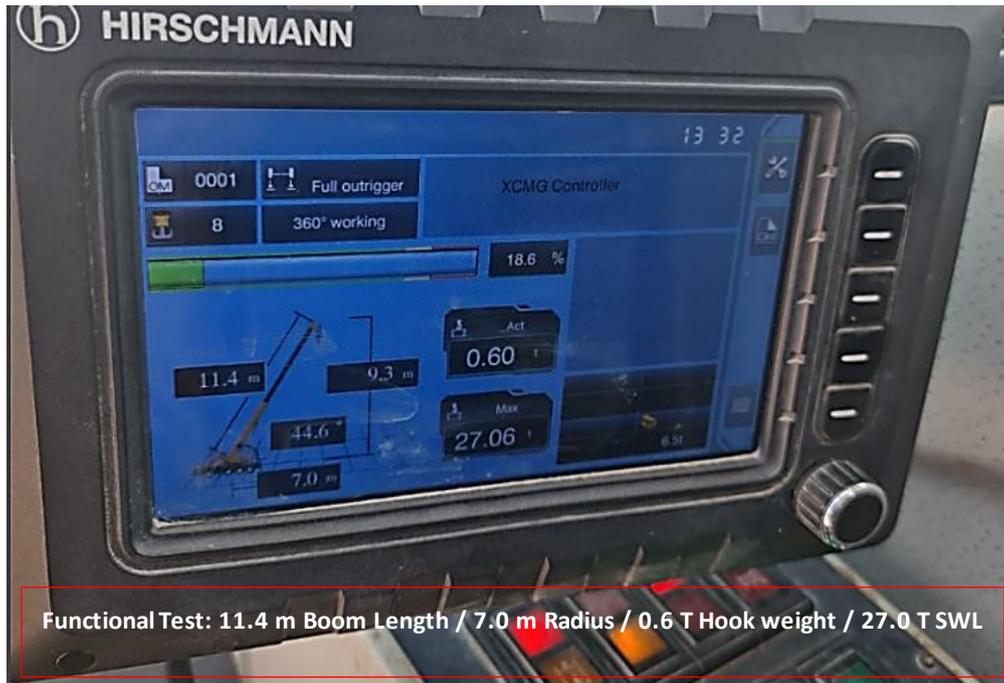


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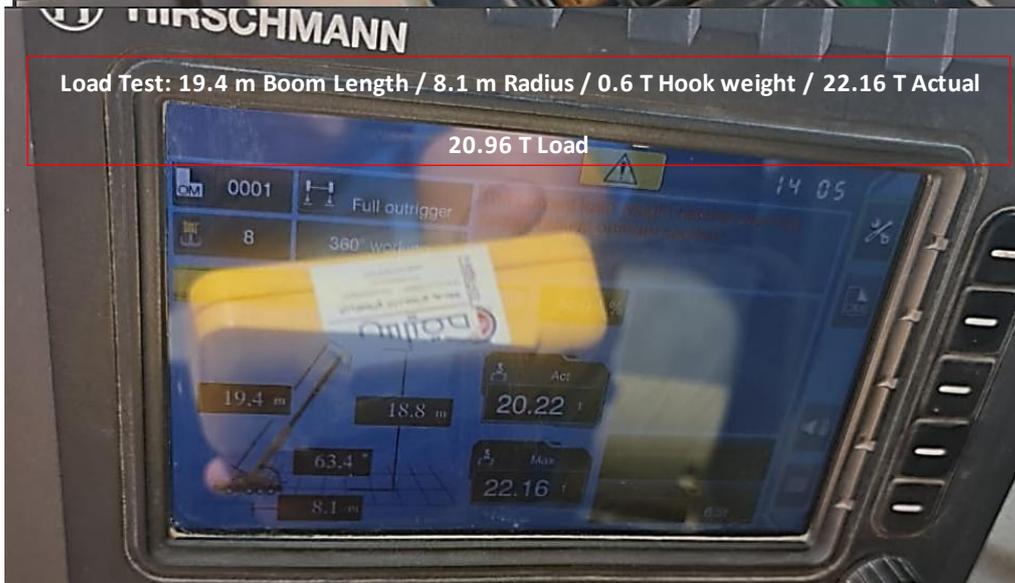




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Functional Test: 11.4 m Boom Length / 7.0 m Radius / 0.6 T Hook weight / 27.0 T SWL



Load Test: 19.4 m Boom Length / 8.1 m Radius / 0.6 T Hook weight / 22.16 T Actual

Final Conclusion

- *Mobile Crane: Visual, functional, performance and load tests were carried out & found accepted
- * Mobile Crane: found safe to continue in service

Inspector Name, Qualifications & signature:

Hasan Omran

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LEEA Registered Technician

ATS Stamp:

