

Mobile Crane Daily Inspection Checklist: Pre-Shift Checks

Frequency
Every shift

Completed by
Crane operator

Approved by
Lifting supervisor

The checklist
36 checks · 5 sections

INSPECTION DETAILS

Site / work location:

Crane ID, plate or serial number:

Crane type:

Hour meter (h):

Shift:

Date and time:

Documents and handover

1. The load chart and operator's manual for this crane are in the cab and legible **CRITICAL** ☐ Pass ☐ Fail ☐ N/A
Ref.: [7] [1]

2. The latest periodic inspection report is kept with the crane and has not expired **CRITICAL** ☐ Pass ☐ Fail ☐ N/A
Türkiye: report by an authorised person, yearly unless the standards set another interval. US: annual inspection by a qualified person.
Ref.: [1] [3]

3. The previous shift's form has been read, and every defect it reported has been repaired ☐ Pass ☐ Fail ☐ N/A
Ref.: [2] [7]

4. The operator is trained and assigned by the employer to operate this crane type **CRITICAL** ☐ Pass ☐ Fail ☐ N/A
Ref.: [1]

Walk-around checks (engine off)

5. Engine oil, coolant, hydraulic oil and hoist drum oil are at the correct level ☐ Pass ☐ Fail ☐ N/A
Ref.: [3] [2]

6.	Hydraulic and air hoses, pipes and fittings show no leaks, kinks or chafing CRITICAL Look at the ground under the crane for fresh oil, fuel or coolant, and at hoses that flex as the boom moves. Ref.: [3] [2]	☐ Pass ☐ Fail ☐ N/A
7.	Tyres are correctly inflated, with no cuts, bulges or worn-out tread Mark N/A for crawler cranes. Ref.: [3] [2]	☐ Pass ☐ Fail ☐ N/A
8.	Boom, jib and superstructure have no bent, cracked or missing parts, pins or retainers CRITICAL Ref.: [2]	☐ Pass ☐ Fail ☐ N/A
9.	The hook has no cracks, deformation or excessive wear, and its safety latch closes CRITICAL Ref.: [3] [2]	☐ Pass ☐ Fail ☐ N/A
10.	Wire ropes show no kinks, crushing, birdcaging, broken wires, corrosion or heat damage CRITICAL Look closely at the end connections, where the rope runs over sheaves and at the drum crossover points. A rope that has touched a power line must be replaced. Ref.: [4] [2]	☐ Pass ☐ Fail ☐ N/A
11.	The rope is reeved as the manufacturer specifies and lies correctly on the drum CRITICAL Ref.: [3] [4] [2]	☐ Pass ☐ Fail ☐ N/A
12.	Outrigger beams, jacks and floats are undamaged, and the floats are fitted CRITICAL Mark N/A for crawler cranes. Ref.: [9] [2]	☐ Pass ☐ Fail ☐ N/A
13.	Cab windows and mirrors are clean and undamaged and do not block the operator's view Ref.: [3] [2]	☐ Pass ☐ Fail ☐ N/A
14.	Battery, cables and electrical connections show no damage, corrosion, dirt or moisture Ref.: [3] [2]	☐ Pass ☐ Fail ☐ N/A
15.	A fire extinguisher is on board and easy to reach Ref.: [1]	☐ Pass ☐ Fail ☐ N/A

Set-up at the lift position

16.	The ground is firm, drained and graded, with no known voids, tanks or buried services under the outriggers or tracks CRITICAL Ask the site for drawings or information on underground hazards, and look for settling or standing water. Ref.: [8] [3] [1]	☐ Pass ☐ Fail ☐ N/A
17.	Outriggers are extended as the load chart requires, the floats sit on pads or mats, and the tyres are off the ground CRITICAL The operator or a signaller watches each outrigger while it is extended and set; check that the jacks hold their position. Mark N/A for crawler cranes. Ref.: [9] [5] [2]	☐ Pass ☐ Fail ☐ N/A
18.	The crane is level within the manufacturer's tolerance, as shown by the level indicator CRITICAL Check again after every move and set-up. Ref.: [3] [5] [2]	☐ Pass ☐ Fail ☐ N/A
19.	The swing area of the superstructure and counterweight is barricaded or marked, and no one is inside it CRITICAL Ref.: [11] [1]	☐ Pass ☐ Fail ☐ N/A
20.	Overhead power lines in the work zone have been identified, and the safe clearance is marked or controlled CRITICAL In the US, OSHA 1926.1408 requires precautions if any part of the crane, load line or load could come within 20 ft (6.1 m) of a power line. Ref.: [10]	☐ Pass ☐ Fail ☐ N/A
21.	Wind and weather are within the limits given in the manufacturer's manual CRITICAL Ref.: [7] [1]	☐ Pass ☐ Fail ☐ N/A
22.	Where the operator cannot see the whole load path, a trained signaller is assigned and the signals or radio channel are agreed CRITICAL Ref.: [1] [2]	☐ Pass ☐ Fail ☐ N/A

Function tests (engine running, no load)

23.	After start-up, no fault or warning messages remain on the display, and the gauges read normal CRITICAL Ref.: [2]	☐ Pass ☐ Fail ☐ N/A
24.	The horn works and is within the operator's reach CRITICAL Ref.: [5]	☐ Pass ☐ Fail ☐ N/A
25.	Lights, beacon and travel or reversing alarm work Ref.: [2] [1]	☐ Pass ☐ Fail ☐ N/A

26.	Control levers and pedals move freely and return to neutral when released CRITICAL	☐ Pass ☐ Fail ☐ N/A
Ref.: [3] [2]		
27.	Service and parking brakes hold the crane, and any foot-pedal brake locks work CRITICAL	☐ Pass ☐ Fail ☐ N/A
Ref.: [2] [5] [1]		
28.	The hoist raises, lowers and stops the empty hook smoothly, and the hook does not creep down CRITICAL	☐ Pass ☐ Fail ☐ N/A
Ref.: [2] [3]		
29.	Boom raise, lower, telescope and slew work smoothly, without jerking or unusual noise CRITICAL	☐ Pass ☐ Fail ☐ N/A
Ref.: [2] [3]		
30.	The load moment indicator or rated capacity limiter is on and set to the actual configuration: outriggers, counterweight and boom CRITICAL A wrong configuration setting gives a wrong capacity.	☐ Pass ☐ Fail ☐ N/A
Ref.: [6] [7]		
31.	The anti-two-block device stops the hook block before it reaches the boom head CRITICAL	☐ Pass ☐ Fail ☐ N/A
Ref.: [6] [2]		
32.	The boom hoist limiting device and other limit switches stop the motion at their set point CRITICAL	☐ Pass ☐ Fail ☐ N/A
Ref.: [6] [2]		
33.	Boom angle, boom length and radius indicators work and can be read from the operator's seat	☐ Pass ☐ Fail ☐ N/A
Ref.: [6]		

Result

34.	Every defect found has been reported in writing to the supervisor and to the next operator	☐ Yes ☐ No ☐ N/A
Ref.: [7] [2]		
35.	If a critical check failed, the crane is tagged out of service in the cab and is not used until repaired CRITICAL	☐ Yes ☐ No ☐ N/A
Ref.: [3] [7]		
36.	Notes and defects found	Note: _____

Critical check: if it fails, stop and correct it before work continues.

SIGN-OFF

Operator	
Name:	_____
Signature:	_____
Date:	_____

Lifting supervisor	
Name:	_____
Signature:	_____
Date:	_____

Legal basis and references

- [1] Türkiye: İş Ekipmanlarının Kullanımında Sağlık ve Güvenlik Şartları Yönetmeliği (Resmî Gazete, 25.04.2013) — Art. 7 and Annex III: periodic inspection of cranes incl. mobile cranes, report kept with mobile equipment; Art. 8 and Annex II 2.1: trained, assigned operators; Annex I 3.1.6, 3.2.2: brakes, lighting, fire extinguisher, load markings; Annex II 2.3.1, 3.1.1, 3.2.2, 3.2.3, 3.2.7: work area, stability, signaller, weather; Art. 10: instructions kept with the equipment.
- [2] Türkiye: Mesleki Yeterlilik Kurumu, 13UY0172-3 Mobil Vinç Operatörü (Seviye 3) Ulusal Yeterliliği (2013) — Units A1–A3: operator's work form, machine checks (fluids, leaks, brakes, gauges, lights, mirrors, tyres, rope, drum, hook, outriggers), positioning and daily functional checks, fault reporting.
- [3] United States: OSHA 29 CFR 1926.1412, Inspections — (d) shift inspection by a competent person and removal from service; (e) monthly; (f) annual by a qualified person.
- [4] United States: OSHA 29 CFR 1926.1413, Wire rope—inspection — (a) shift inspection of wire rope: deficiency categories and removal from service.
- [5] United States: OSHA 29 CFR 1926.1415, Safety devices — (a) level indicator, boom stops, foot-pedal brake locks, outrigger jack holding devices, horn; (b) no operation unless in working order.
- [6] United States: OSHA 29 CFR 1926.1416, Operational aids — (d) boom hoist limiting and anti-two-block devices; (e) boom angle, length and load moment indicators; repair deadlines.
- [7] United States: OSHA 29 CFR 1926.1417, Operation — (a) manufacturer's procedures; (c) load chart and manual in the cab; (f) tag-out; (j) defects reported in writing; (n) wind, ice and snow.
- [8] United States: OSHA 29 CFR 1926.1402, Ground conditions — (b) firm, drained and graded ground with supporting materials; (c)(2) known hazards beneath the set-up area.
- [9] United States: OSHA 29 CFR 1926.1404, Assembly/Disassembly—general requirements — (q) outriggers and stabilizers: extension, weight off the tyres, floats attached, blocking under floats.
- [10] United States: OSHA 29 CFR 1926.1408, Power line safety (up to 350 kV)—equipment operations — (a) work zone and 20 ft clearance assessment; (b) precautions against encroachment.
- [11] United States: OSHA 29 CFR 1926.1424, Work area control — (a) swing radius hazards: barriers or markings around the rotating superstructure.



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