3P SAFETY
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309 N William St, Goldsboro, NC 27530 • (252) 274-0583 • contact@3psafety.net

MOBILE CRANE INSPECTION CHECKLIST

Daily (Pre-Shift) · Monthly · Annual — OSHA 29 CFR 1926.1412 · ASME B30.5

For the mobile-crane family — rough-terrain, all-terrain, truck-mounted, crawler, boom-truck, and carry-deck cranes. Mark each item, note deficiencies on page 2, and take any crane with a safety defect out of service until a qualified person clears it.

Crane / Unit ID:	Make / Model:	Date:	Inspector:

1 Pre-Shift / Daily Inspection

Competent person (often the operator), before each shift — OSHA 1926.1412(d). A quick visual and functional check.

CONTROLS, BRAKES & SAFETY DEVICES

- ☐ Control mechanisms — no maladjustment or excessive wear
- ☐ Service and holding brakes — hoist, swing, travel
- ☐ Anti-two-block (ATB) and load-moment indicator (LMI)
- ☐ Boom-angle / length indicators and limit switches
- ☐ Horn, backup alarm, lights, and gauges

WIRE ROPE, HOOK & LOAD PATH

- ☐ Wire rope — fresh broken wires, kinks, obvious damage
- ☐ Rope spooling evenly on the drum
- ☐ Hook, latch, and load block — cracks, wear, latch closes

POWERTRAIN, HYDRAULICS & GROUND

- ☐ Air, hydraulic, and fuel lines for leaks; fluid levels
- ☐ Engine, cooling system, and warning lights
- ☐ Tires / tracks and outrigger pads
- ☐ Ground and supporting surface under the setup

SETUP (BEFORE THE LIFT)

- ☐ Outriggers fully extended or set per the load chart; crane level
- ☐ Power-line clearance to the OSHA 1926.1408 minimum
- ☐ Correct load chart for the actual configuration

DOCUMENTS IN THE CAB

- ☐ Load chart legible • crane log current • annual on file

2 Monthly Documented Inspection

Competent person — OSHA 1926.1412(e). Sign and date the record; keep it at least three months.

- ☐ Wire rope along its full length, including wraps on the drum
- ☐ Hook throat opening measured against spec; latch condition
- ☐ Hoist brakes and holding brake
- ☐ Sheaves, drums, and reeving
- ☐ High-stress welds and pins — closer look
- ☐ Functional test of limits and safety devices
- ☐ Record signed, dated, and filed with the crane log

Need a documented, qualified-person inspection? 3P Safety Inspections is an independent, third-party firm — we do not sell or rent cranes. NCCCO-certified inspectors · all 50 states · 24–72 hr scheduling · photo-documented reports. **(252) 274-0583 · 3psafetyinspections.com**

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3 Annual / Comprehensive Inspection

Qualified person, at least every 12 months — OSHA 1926.1412(f) and ASME B30.5. Full written report; keep it at least twelve months.

- ☐ **Structure** — boom, jib, lattice, welds, pins, bolts: cracks or deformation
- ☐ **Wire rope & reeving** — broken wires, diameter, corrosion, end connections (ASME B30.5 removal criteria)
- ☐ **Hooks & load blocks** — throat opening, wear, cracks, swivel and bearing
- ☐ **Brakes & controls** — service and holding brakes, clutches, controllers
- ☐ **Hydraulics** — cylinders, valves, hoses, pump; drift test
- ☐ **Power & drive** — engine, swing gear, turntable bearing, travel drive
- ☐ **Carrier** — tires / tracks / outriggers, pads, leveling jacks
- ☐ **Safety devices** — ATB, LMI, limits, alarms, level indicator
- ☐ **Electrical** — wiring, switches, grounding
- ☐ **Documentation** — crane log, prior reports, load charts, capacity plates, manuals
- ☐ **Rated-capacity load test** — if the crane is new, repaired, modified, or due

Carry Deck Crane Supplement — Same Schedule, Extra Attention

Carry deck cranes run on the same OSHA 1926.1412 daily / monthly / annual cycle and ASME B30.5 detail as the rest of the mobile-crane family. Working indoors and close to people, give extra attention to:

- ☐ Sightlines, mirrors, and horn — deck-level operation near workers
- ☐ Outrigger boxes and pads — floor loading over slabs, covers, pits
- ☐ Boom wear pads and the boom support / rest
- ☐ Deck condition and load securement
- ☐ Tires and brakes — pick-and-carry duty per the load chart
- ☐ Re-inspect after idle periods — plant cranes that sit

Re-inspect after an event. A repair, modification, overload, storm, collision, or long idle period takes the crane out of service until a qualified person checks the affected systems and clears it — OSHA and ASME both require it.

CRITICAL	MAJOR	MINOR	MONITOR
Out of service now	Fix before the next lift	Fix on a set timeline	Watch & re-check next interval

Deficiencies found / corrective action

Inspector signature _____ Date _____ Cleared for service by (qualified person) _____

Disclaimer. This checklist is a free educational field aid, not professional or legal advice. It does not replace the documented inspection by a qualified person that OSHA and ASME require, and it does not cover every condition on every machine — always follow the manufacturer's manual and the current OSHA and ASME standards. Use at your own risk; 3P Safety Inspections assumes no liability for its use. Take any crane or lift with a safety defect out of service until a qualified person clears it.

Free download & the full guide: 3psafetyinspections.com/mobile-crane-inspection-checklist — quotes in about a business day, on site in 24–72 hours. **(252) 274-0583**