

CRANE & HOISTING EQUIPMENT INSPECTION CHECKLIST

GENERAL INFORMATION

Name: _____

Date: _____

Location: _____

GENERAL CONDITION & STRUCTURAL INTEGRITY

Yes No — Boom, jib, and mast sections are free from cracks, bends, or corrosion

Yes No — Load-bearing structures show no deformation or welding defects

Yes No — Counterweights are properly secured and installed

Yes No — Outriggers and stabilizers function correctly with adequate spread

HOOKS, WIRES & RIGGING ELEMENTS

Yes No — Hooks are free of cracks, deformation, or excessive wear

Yes No — Wire ropes, chains, and slings are inspected for fraying or corrosion

Yes No — Rigging hardware meets rated load capacity requirements

Yes No — Lifting accessories are properly tagged and traceable

BRAKES & SWING MECHANISMS

Yes No — Swing brakes operate without hesitation or binding

Yes No — Travel brakes and controls respond as intended

Yes No — Slewing mechanisms rotate smoothly with no abnormal noises

Yes No — Gearboxes and bearings show no leaks or overheating

HYDRAULICS & POWER SYSTEMS

- Yes No — Hydraulic lines, hoses, and cylinders are leak-free
- Yes No — Hydraulic pressure maintains consistent performance under load
- Yes No — Engine and power source components operate smoothly
- Yes No — Fuel, oil, and coolant levels meet manufacturer specifications

CONTROLS & INSTRUMENTATION

- Yes No — Load moment indicators (LMI) and limit switches function properly
- Yes No — Emergency stop mechanisms operate correctly
- Yes No — Gauges and panel indicators display accurate readings
- Yes No — Two-way communication system is operational and audible

LOAD TESTING & OPERATIONAL PERFORMANCE

- Yes No — Crane lifts loads without excessive sway or instability
- Yes No — Load charts and rated capacities are visible and accessible
- Yes No — No abnormal vibrations, noise, or hesitation during operation
- Yes No — Rotation, hoist, boom, and trolley movements are precise and controlled

SITE COMPLIANCE & SAFETY CONTROLS

- Yes No — Ground conditions are stable and suitable for deployment
- Yes No — Exclusion zones are marked with appropriate signage
- Yes No — PPE requirements for operators and riggers are enforced
- Yes No — Inspection logs and certifications are current and documented

FINAL NOTES

Inspector Comments:

Inspector Name: _____

Inspector Email: _____

Inspection Date: _____

I confirm this inspection was completed accurately

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