

Monthly Overhead Crane Inspection Checklist					
No.	Category	Item	Inspection Requirements & Methods	Inspection Result (Pass/Fail)	
1	Overall Performance	Abnormal Lifting Inspection	Observe for abnormal vibration of the main beam or load during full load lifting. Listen for abnormal noise from each mechanism. When possible, touch gearboxes and motors for abnormal heat. Analyze and eliminate the causes of abnormalities.		
2		Sliding During Lowering	During full load lowering, check whether the load slips excessively when stopped. If so, adjust the hoist brake clearance until braking is normal.		
3		Inspection During Operation	Observe for serpentine motion, twisting, lateral sliding, skewed travel, rail gnawing, or abnormal noise during crane operation. Mark and investigate the causes.		
5		Wheel Load Condition	Check for suspended wheels or 'three-leg' condition where individual wheels are not rotating properly.		
6		Oil Leakage Check	Check for oil seepage or leakage from hoist or trolley travel reducers.		
8		Surface Appearance	Check for rust, peeling paint, or surface damage.		
9		End Stop Inspection	Check for deformation or damage to end stops. Ensure no risk of falling. Check bolts or welds for loosening or cracking.		
10	Travel Mechanism	Rail Installation Inspection	Check for joint deformation, bolt looseness, lateral rail shift, cracked welds, loose base/connection plates.		
11		Rail Wear Check	Inspect running rail tread and side for severe localized wear, peeling, or deformation.		
12		Weld Seam Inspection	Check for cracks in the welds of the main and end beams.		
13		Main Beam Wear/Deformation	Check I-beam flange for severe wear or plastic deformation (sagging).		
14		Beam Connection	If bolted, check for looseness.		
15	Main/End Beams	Rail on Main Beam	Check for abnormal bending or deformation. Inspect pressure plates, bolts, and welds.		



16		Trolley Stopper on Main Beam	Check for deformation, damage, or falling risk. Ensure bolts/welds are intact.	
17		Buffer Inspection	Buffers must be firmly attached, without cracks or damage.	
18	Motor	Motor Overheating	Check if hoisting or travel motors are overheating. Analyze causes such as overload, voltage drop, frequent braking, small brake gap, or friction between brake wheel and lining.	
19		Motor Abnormalities	Check if motors are hard to start, noisy, or emit abnormal sounds. Analyze causes like overload, low voltage, brake not releasing, or wiring issues.	
21	- Brake	Brake Performance	Check if hoist brakes slip too much when lowering loads. Check if travel brakes can't stop properly or slide too far. Adjust performance if needed.	
22		Brake Abnormalities	Check if cone brake lock nuts are loose. If squealing, inspect for friction issues or poor contact in brake lining.	
23		Gear Noise	Check for abnormal gear noise. Analyze if due to poor lubrication, bearing wear, gear damage, or poor machining/assembly.	
24		Abnormalities	Check for loose bolts or oil leakage in reducers.	
25	Reducer	Wear Condition	Check for abnormal wear in drum rope grooves.	
26		Drum Shell	Check if drum shell is damaged, especially from hook block collision due to limit failure.	
27		Rope Guide	Check for cracks; ensure smooth wire rope exit during hook lowering.	
28		Abnormalities	Check for loose pressure plates, bolts on drum and rope guide; ensure smooth guide block movement.	
29		Broken Wires	Discard wire rope if broken wires exceed 10% of total within one lay length.	
30		Wear	Discard wire rope if diameter reduction exceeds 7% of nominal diameter.	
31	Drum & Wire Rope	Deformation	Discard ropes with crush damage or kinks from side pulling.	
32		Corrosion	Check for rust; rope should be lubricated and free from excessive dirt.	



33		Looping in Air	Check if wire rope loops in air (especially for systems with 4+ ropes).	
34		Abnormal Inspection	Check all critical rope areas, especially fixing points, pulley contacts, etc., for oil lack, rope biting, or derailment.	
35		Crack Inspection	No harmful cracks on hook, pulleys, or pulley shell.	
36	Hook & Pulley	Wear Condition	No abnormal wear on hook opening or pulley groove.	
37		Abnormalities	Check pulleys for damage; ensure hook nut is tight; check bolts of shell and stopper plates.	
38		Deformation	Hook opening must not be abnormally deformed.	
39		Rotation Check	Pulleys must rotate flexibly.	
40		Wear Check	No abnormal wear on tread or flange inner surface.	
41	Wheel	Crack Check	No conductorsracks on wheels.	
42		Bare Conductor Safety	Bare conductor must maintain safe distance and have protection measures.	
43	Power Supply Device	Contact Surface	Check for corrosion on sliding contact surface; clean with steel brush or sandpaper.	
44		Insulator Check	Support insulators must be undamaged and connections tight.	
45		Flexible Cable Entry	Check flexible cable support wire rope for wear and tension.	
46		Safety Marking	Check for safety markings on non-conductive side and power-on indicators.	
47		Wear Condition	Collector wheels, pins, or rings must not show abnormal wear.	
48	O-llast	Fixing Check	Cable connections must be tight and insulators secured.	
49	Collector	Wheel Rotation	Collector wheels must rotate smoothly; lubricate if noisy or stuck.	



50		Spring Check	Springs must retain elasticity, free from rust or fatigue.	
51	Internal Wiring	Appearance	Rubber cables and wires must not have external damage.	
52		Fixing Connections	All electrical and wiring fixings must be secure.	
53		Cable Movement	Cables must move without excessive bending or twisting.	
54	-Contactor	Contact & Core	Check for wear/damage on contacts and cores; ensure clean flat surfaces.	
55		Wiring Fixing	Wiring screws must be tight.	