



AUI Department of Environmental Safety & Security Monthly Mobile Crane Checklist

Authorized Inspector Name:

Date:

Location of Inspection:

Crane Being Inspected:

Per ES&S Safety Policy and Program Manual – MH-01.3.3, the inspection of a mobile crane shall be done at daily to monthly intervals prior to use.

- * Inspections must be conducted on a Monthly basis
- * Maintain checklist as documentation of this requirement

A. CRANE	Yes	No	N/A	Comments
1. Load rating marked on each side of the crane?				
2. Load rating of the hoist marked on the hoist or its load block and legible from the ground? (If the crane has more than one hoisting unit, each hoist shall have its rated load marked on it or its loading block and this marking shall be clearly legible from the ground).				
3. All controller functions labeled and legible?				
4. All operational controls and functional operating mechanisms working properly, properly adjusted and no unusual sounds?				
5. Upper limit switch operating properly? It shall be tested with no load on the hook. Extreme care shall be exercised; the block shall be "inched" into the limit device or run in at slow speed.				
6. Excessive wear of components on any functional operating mechanisms				
7. Deterioration or leakage in lines, tanks, valves, drain pumps, and other parts of the air or hydraulic system>				
8. Excessive dirt, grease, or foreign matter?				
9. Deformation and / or cracking of the hook, load block, drums and /or sheaves?				
10. Safety latch on crane/hoist load block that automatically closes?				
11. Conduct pre-use inspection of equipment. Does it pass the pre-use inspection?				
12. Any deformed, cracked, or corroded members?				
13. Are there worn, cracked, or distorted parts such as pins, bearings, wheels, shafts, gears, rollers, locking and clamping devices, bumpers, and stops ?				
14. Is there excessive wear or improper operation of the brake system parts, linings, pawls, chain sprockets or ratchets?				
15. Any cracked or worn sheaves and drums?				
16. Are there loose or missing bolts, nuts, pins or rivets?				
17. Is there any signs of pitting or deterioration of controllers, master switches, contacts, limit switches and push button stations?				
18. Are load, wind and other indicators properly operating?				

19. Are gasoline, diesel, electric or other power plants performing properly?				
20. Are stops provided at the limit of travel of the trolley?				
21. Any corroded, cracked, bent, worn or improperly applied end connections?				
22. Load chain reeving for compliance with hoist manufacturer's recommendations?				
B. HOOK				
1. Is there any gouges, nicks, weld splatter, corrosion, deformation or cracks?				
2. Had the hook throat opening increased 5%, not to exceed 1/4 inch (6 mm), more than the normal throat opening measured at the narrowest point?				
3. Is there any bend or twist from the plane of the unbent hook?				
C. CHAIN				
1. Is there excessive drive chain stretch?				
2. Test the hoist under load in lifting and lowering directions and observe the operation of the chain and sprockets. Does the chain feed smoothly into and away from the sprockets?				
3. Does the chain bind, jump, or is noisy? If so, clean chain. If trouble continues, inspect the chain and mating parts for wear, distortion, or other damage.				
4. Slacken the chain and move the adjacent links to one side to inspect for wear at the contact points. Is wear observed? Is stretching suspected?				