

MURTAGH CRANE HIRE LTD

SAFE OPERATION OF MOBILE PLANT

Prior to starting any mobile plant you must have been trained in the operation of the mobile plant and hazards associated with its use, to a standard acceptable to our Company, have obtained the appropriate licence if applicable and ensure where applicable correct personal protective equipment is being worn/used.

No person shall use Murtagh & Lymburn owned mobile plant without first gaining the permission of a supervisor, and then only after proof of adequate training in the operation of the machinery has been provided.

The rights to operate the machinery may be withdrawn in the case of reckless or dangerous use of the machinery.

Plant when not in use must be parked in a safe area and manufacturers parking brake system applied.

CRANES AND HEAVY LIFTING

Cranes and other mobile machinery may be operated and crane-lifting operations directed only by trained staff and supervisors. The following general rules apply to working with and around mobile cranes.

- Be aware of electricity supply lines. No part of any mobile crane equipment or load should be within four metres of any electricity supply line at any time.
- Be aware of ground and weather conditions.
- Know the safe capacity of the crane, rigging equipment and the weight of any load you are working with. Be sure that the lifting equipment is used safely and properly.
- Stay clear of crane swing area and loads.
- Use tail ropes to guide suspended loads.
- Do not walk or work under the suspended load unless adequate safety props protect you.
- If you are controlling a lift, make sure it does not endanger other people. Ensure that other people do not enter the danger area by accident. Fence it off if necessary.
- Do not improvise. Always use the proper rigging equipment.
- Never ride the load or a crane hook.

LIFTING EQUIPMENT INSPECTION GUIDELINES.

The following guidelines are to be followed when carrying out inspection of all lifting equipment

Responsibility: To be carried out by the operator and the approved person. Only the approved person shall make entries into the equipment register.

Inspection Frequency: All rigging shall be inspected at least every twelve months.

CHAINS

1. Remove chain from crane or storage, wash dean using a mild solvent solution and water.
2. Lay chains and components out on a flat dean surface with all the twist removed.
3. A link by link inspection should be carried out and the following faults looked for:
 - (a) cracks in the weld area or shoulders or in any other cross section of the link.
 - (b) bent links.
 - (c) scores or any marking that could weaken the link.
 - (d) corrosion pits.
4. Using a vernier or similar tool check the measurements of at least 6 links per metre and the link with the maximum wear measured to be recorded on the "Chain Sling Check List" form.
5. Check master links, hooks, safety latches and shortening clutches for pin wear and or bent deformed components.
6. Check on overall length of the chain and components from the inside of the head ring to the bowl of the hook and record on "Chain Sling Check List".
7. Check ID tag is attached and the S.W.L. is dearily readable.
8. Record inspection and date in Equipment Register.

Note: The wear of the chain shall in no place exceed 10% of the original manufacturer's dimension.

WIRE SLINGS

1. Lie out slings and wash clean.
2. Inspect for broken strands, kinks, crushing, excessive stretching and corrosion. Inspect around thimbles and talurits for cracks or damage.
3. Check I.D tag is attached and the S.L.I is dearily readable.
4. Lubricate wire sling using an approved wire lubricate, roll up and return to storage.
5. Record inspection and date in equipment register.

NYLON SLINGS

1. Lay out the nylon sling. Remove any protective sleeves and water blast dean.
2. The sling should be examined throughout their length for surface chafe, cross or longitudinal cuts in the webbing, cuts or chafe damage to the stitching around the eyes or fittings.
3. Hang and allow to dry, refit protective sleeves.
4. Check ID tag is attached and dearily readable.
5. Record inspection and date in Equipment Register.

LIFTING BEAMS/SPREADER BEAMS

1. Clean and inspect beams/bars for cracked joints or welds, stretched lifting eyes and any other defects.
2. Using a wire brush or similar tool, remove any rust or flaking paint paying particular attention to all welds. Replace any damaged or bent pins.
3. Check any permanently fitted slings and attachment shackles.
4. Repaint any damage caused by repairs.
5. Check I.D. tag or stamping is clearly readable.
6. Record inspection date in the equipment register.

SWIFT LIFTS

1. Inspect swift lift for bent or distorted lifting eyes, check measurements in accordance with the manufacturer's specifications.
2. Check swift lifts using the manufacturer's test-measuring block. Test block must be used in accordance with the manufacturer's instructions.
3. Check I.D. tag or stamping is clearly readable.
4. Record inspection date in equipment register.

SNATCH BLOCKS

1. Wash clean and remove any rust or flaking paint
2. Begin at the head fitting and check for excessive wear on the shackle or alternative fitting. Check head fitting shank nut is securely pinned.
3. Inspect the swivel shank for any signs of elongation of the shank and sagging of the crosshead ends.
4. Check hinge pins are straight and secure.
5. Check sheave groove for excessive wear or rope indentations, which could damage the rope.
6. In ball and roller blocks, check for bearing slackness, and in plain bearing block check for slackness between the shaft and sheave.
7. Grease and/or oil the bearing and the swivel.
8. Check the ID tag or stamping is clear and readable.
9. Record inspection and date in Equipment Register.

GENERAL

The above equipment inspection procedure must be carried out and recorded every twelve months.

The inspection of lifting -equipment is an ongoing procedure and all lifting equipment should be visually inspected every time before use.

Suitably qualified people in accordance with the manufacturer's specifications must carry out any repairs to equipment