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|  | Rigging Inspection Form  |
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|  | Project/Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Inspection Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Inspector:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Inspector | Type | ID | Description | Condition |
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| **WIRE ROPE SLING** | **CHAIN SLING** | **Synthetic Web and Round Slings** | **Metal Mesh Slings** | **Hooks** | **Shackles** | **Rigging Hardware** |
| Wire rope slings shall be removed from service when any of the following conditions are found: | Each link and component shall be examined individually. If an inspection yields any unacceptable conditions, such as those listed below, the sling shall be immediately removed from service. | Remove all synthetic slings from service if any of the following conditions are found: | Metal mesh slings shall be removed from service when any of the following conditions are found: | The expected wear point on a hook is in the saddle area where the load is normally plied; however, wear may occur in other locations. Hooks shall be removed from service if: | Remove a shackle from service if any of the following conditions are found: | Remove rigging hardware from service if any of the following conditions are found: |
| ● 10 Broken wires randomly distributed in one rope lay | ● Evidence of wear, nicks, cracks, breaks, gouges, stretch, or bends | ● Acid or caustic burns | ● A broken weld or a broken brazed joint along the sling edge | ● There is any significant deformation of the hook | ● Any bend or deformation in the pin or box **(Note** 1 below) | ● Missing or illegible manufacturer’s name or trademark nd/or rated load identification. |
| ● 5 broken wires in one strand in one lay | ● Minimum thickness on the chain links shall not be elbow the allowable values per the manufacturer's requirements | ● Melting or charring of any part of the sling | ● A broken wire in any part of the mesh | ● There is significant increase of the throat opening of the hook | ● Wear of the pin or bow diameter in excess of 10% of the original diameter. Wear is limited to 5% if it occurs in two opposing directions | ● A 10% reduction of the original or catalog dimension |
| ● Severe localized abrasions or scraping | ● Welding, arc strikes, or weld spatter on the links or hooks | ● Holes, cuts, tears, excessive fraying, snags, or exposure of core yarn on round slings | ● Reduction in wire diameter of 25% due to abrasion or 15% due to corrosion | ● The hook is cracked | ● If there are nicks, gouges, or scratches remove from service and grind off (**Note** 2 below) | ● Bent, twisted, distorted, stretched, elongated, cracked or broken load bearing components |
| ● Dog legs, kinks, crushing, bird caging or any other damage resulting in distortion of the rope structure | ● Discoloration due to excessive temperature | ● Broken or worn stitching in load bearing splices. Broken or damaged core yarn on round slings | ● Lack of flexibility | ● They have been opened more than 5% of the normal throat opening (measured at the narrowest point) | ● The manufacturer's name and WLL is not legible on the shackle | ● Excessive nicks or gouges |
| ● Evidence of heat or electrical arc damage | ● Links and hooks do not hinge freely (binding indicates deformation) | ● Knots in any part of the sling | ● Distortion of either end fitting such that the width of the eye opening is decreased by more than 10% | ● Twisted more than 10% from the plane of the unbent hook | ● Incomplete pin engagement | ● Excessive pitting or corrosion |
| ● End attachments that are cracked, deformed, or worn to the extent that the strength of the sling is substantially affected | ● Increased length | ● Excessive pitting, corrosion, cracked, broken, or distorted end fittings | ● Distortion of the choker fitting so the depth of the slot is increased by more than 10% |   | ● Excessive thread damage | ● Indications of heat damage, including weld spatter or arc strikes |
| ● Severe corrosion of the rope or end attachments | ● For multi-leg slings hung on a hook-legs must be the same length | ● Other visible damage that causes doubt as to the strength of the sling | ● A 15% reduction of the cross- sectional area of the metal around the hook opening or end fitting |   | **Notes:**1. Scrap bent or deformed shackles. Check the spacing of the two sides of the shackle and at the pin against manufacturers stated dimension | ● Evidence of unauthorized welding |
| ● Missing or illegible sling  identification | ● Missing or illegible sling  identification | ● Discoloration and brittle or stiff areas on any part of the sling which may indicate chemical or ultraviolet/ sunlight damage | ● Cracked fitting on either end |   | 2. Grind off nicks, gouges and scratches under the direction of a competent person, after which the diameters are to be checked for wear. Grind a little at a time to avoid over-heating the shackle | ● loose or missing nuts, bolts, cotter pins, snap rings, or other fasteners and retaining devices |
|   |   | ● Missing or illegible sling identification | ● Fittings that are pitted, corroded, bent, twisted, gouged, or broken |   |   | ● Unauthorized replacement components |
|   |   |   | ● Missing or illegible sling identification |   |   | ● Other conditions including visible damage that cause doubt as to the continued use |