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SAFETY CIRCULAR

05th Feb 2019

TO: Fleet

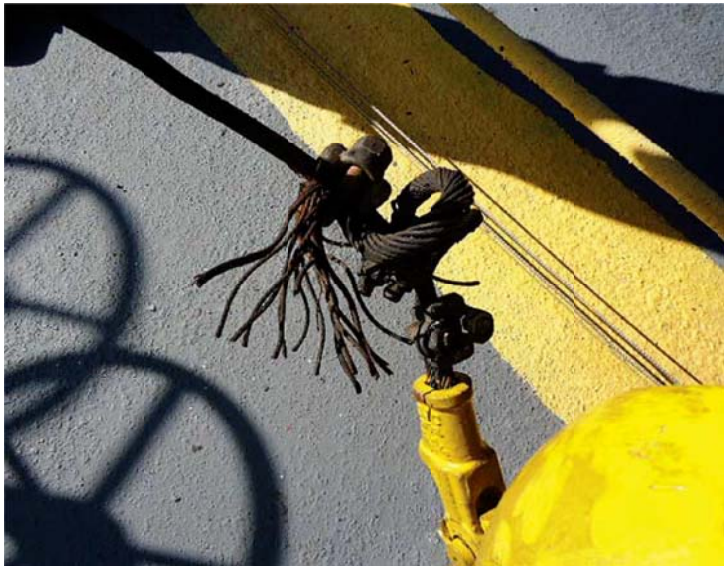
SUBJECT: CARE OF WIRES ON BOARD

Dear Masters,

We have to focus upon the judgment and inspection of wires on board of our vessels.

Some examples found:







What has to be done: DO'S

- Lubricate ropes with good quality acid free and moisture free lubricant.
- Regularly inspect the sheaves, rollers or pulleys - the life of a rope largely depends on their conditions.
- Inspect ropes and fittings/terminations periodically.

What must not be done: DON'TS

- Do not allow ropes in store to deteriorate
- Do not mishandle ropes when uncoiling or unreeling & allow kinks to form.
- Do not use Langs lay with a swivel
- Do not use a rope with too large groove diameter on drums and pulleys.
- Do not cut a rope without seizing.
- Do not use rope which is not sufficiently flexible for the size of drum or pulley.
- Do not load the rope beyond its safe working load.
- Reduction of safety factor may jeopardize not only rope, but also equipment, job and men.

Wire Rope Check

Wire ropes are to be checked regularly in order to recognize damage in good time.

These checks are then to be recorded in the cargo gear book.

The checks are to be performed according to the following criteria:

- a) wear and tear on the outer strands
- b) rust build-up
- c) twist loosening
- d) reduction in wire diameter
- e) wire- and strand fractures (the number of visible wire fractures are to be documented by means of sketches)
- f) location of the fractures
- g) chronological log of the wire fractures
- h) damage by pinches

To this end, the areas to be checked are to be cleaned of grease and dirt.

Discarding Condition

In order to ensure operational safety, the wire rope must be discarded when the following characteristics are present:

- a) wear and tear beyond 10% of the original diameter
- b) significant build-up of corrosion



- c) deformation similar to that of a corkscrew



d) the wire rope is buckled



e) loosening of individual wires or strands



f) formation of knots

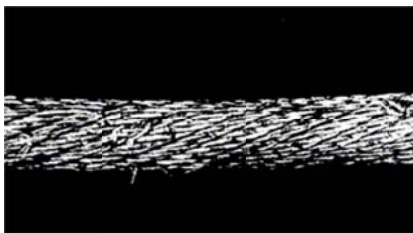


g) pinches

h) flattening by squeezing



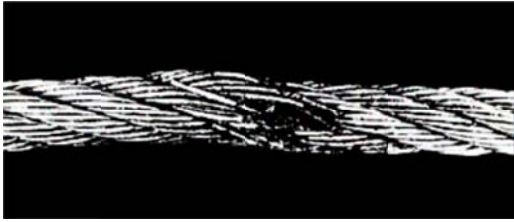
i) visible wire- and strand fractures corresponding to the registered. at a length of 6 x rope's diameter; 15 visible wire fractures



j) at a length of 30 x rope's diameter; 30 visible wire fractures



local concentration of wire fractures



The replacement of a wire rope is to be recorded in the cargo gear book.

Unfortunately, there are no concrete rules or regulations regarding the timely discarding condition of wire ropes. Of course, some companies have published internal rules and regulations indicating when crane wires are to be discarded.

QHSE
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