

# TSJ 60 W2-01<sup>E</sup>: 2024 adjustments

## 1.1 Certification scheme for the E&T of offshore cranes

This certification .....installations.

In consultation .....with NEN 17020.

For a crane which is older than 24 years, the owner of the crane will provide the certification body with a valid "Lifetime Extension declaration" in which the safe use of the crane is declared.

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### 1.1. W2-01 aanpassen naar W2-01<sup>E</sup>

## 8.4 Facilities

The Technical Inspector of the inspection body must have appropriate and adequate resources to carry out the inspection competently and be able to perform the inspection safely.

The technical inspector has at least the following means:

- Metric measuring tape of 30 to 50 meters or an equivalent digital device with a maximum inaccuracy of 10cm: calibration is not required (indicative measurement);
- Metric caliper with a **maximum inaccuracy of 0.5 mm**: Calibration not required (indicative measurement);
- Calibrated tension gauge in accordance with ISO 7500 (class 1).
- Personnel Protection Equipment (PPE) as required by the client

Voorgestelde wijziging:

## 8.4 Facilities

The .....safely.

The technical inspector has at least the following means:

- Metric measuring tape of 30 to 50 meters or an equivalent digital device with a maximum inaccuracy of 10cm: calibration is not required (indicative measurement);
- Metric caliper with a **maximum inaccuracy of 0.05 mm**: Calibration not required (indicative measurement);
- Calibrated (**by a RvA approved organisation**) tension gauge in accordance with ISO 7500 (class 1).
- Personnel Protection Equipment (PPE) as required by the client

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### 0113 documentation

When the crane (> 24 years) is due to inspection, the owner of the crane will provide the inspection body a lifetime extension declaration with sufficient information regarding:

- spline inspections (gear box, winch)
- boom (decrease of material thickness max. 10%, Lloyds rules)
- A-frame (decrease of material thickness max. 10%, Lloyds rules)
- electrical components

#### Wijzigen in:

Lifetime Extension report needs to be issued for review and approval with the following contents as a minimum;-

- Fatigue calculation stated that the crane is still safe to use, for a defined period, drawn up by the original equipment manufacturer or an independent engineering bureau.
- Based on a 5-yearly interval the following reports:-
  - NDT inspection of primary load bearing structural welds of the crane (Pedestal, Mainframe, A-Frame, Sprengel Frame, Boom & Winch Frames)
  - NDT wall thickness inspection of the primary loadbearing structure
- Spline & brake package inspection (gearboxes & winches) report:-
  - Dry – inspection interval of 2 years
  - Wet – inspection interval of 5 years

### 0401 Structure (Corrosie)

Visual inspection of welded joints. Pay particular attention to welds where the paint has broken or that show a lot of corrosion.

Check the structure for dents, bent pieces, severe corrosion and other damage. Check the fixing of parts to each other.

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Check the structure for dents, bent pieces, severe corrosion and other damage. Check the fixing of parts to each other.

- If it has been established that the integrity of the primary loadbearing structure of the crane cannot be assessed due to observed corrosion, a NDT wall thickness report will have to be submitted for review and approval.
- A maximum material wear down of 10% compared to nominal wall thickness can be accepted.
- If a wear down of more than 10% has been reported the primary loadbearing structure needs to be:-
  - repaired or
  - a calculation report needs to be submitted for approval, drawn up by the original equipment manufacturer or an independent engineering bureau, demonstrating that the crane, with the reduced wall thickness, is safe to use.

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### 0403 – Cable Sheaves.

- Check the groove wear (with a calibre ). Check manufacturers instruction
- Check the bearing play and the position of the bearings.  
Check the clearance in relation to the next sheave or wall.

Note: check the factory specification of the bearings; some bearings have a lot of play.

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The NEN 3508-1998 describes:

- $0,525 d \leq r \leq 0,55 d$  (r afgerond op 0,5mm)
- d is de n nominale kabelmiddelijn, in mm
- r is de afrondingsstraal, in mm.

### 0404 Cable run-out safety devices

Check for the presence, the correct positioning and the functioning of the run-out safety devices.

#### Voorgestelde wijziging:

Check for the presence, the correct positioning and the functioning of the run-out safety devices (**rope guard**).

**Maximum allowable gap between the rope guard and the rim of the winch drum and the gap between the sheave and the rope guard is 25% of the nominal thickness of the steel wire rope.**

### Algemene informatie

zie de Norm hieronder en de verwijzing naar de Machine Richtlijn, wellicht is het zo duidelijker.

NEN-EN 13852-1:2021 Ontw.

prEN 13852-1:2021 (E)

### Introduction

This document is a type C standard as defined in EN ISO 12100:2010.

This document has been prepared to provide one means for general purpose offshore cranes to conform to the essential health and safety requirements of the Machinery Directive.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document (see Clause 1).

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

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