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Information

Document No.

Audit Title

Client / Site

Conducted on

Prepared by

Location

Hoist Details



Hoist Details

Crane identification number

MRC Maximum Rated Capacity WLL Working Load Limit

Visitor pass number

Time on site

Job number

Hour meter reading

Date of Manufacture

Photo of the hoist

Any other comments

Yes No

Any delays in gaining access to the site

Yes No N/A

Hoist

HOIST

Wire Rope condition

Safe At Risk N/A

Wire Rope Guide condition

Safe At Risk N/A

Wire rope drum is free from any backlash play.

Yes No N/A

Hook and safety catch

Safe At Risk N/A

Wire Rope Anchor

Safe At Risk N/A

Sheave radius and condition

Safe At Risk N/A

Working height limit switches

Safe At Risk N/A

Working height limit switch Adjustment

checked all limits all OK Adjustments made to limit settings Adjustment is required Repairs required

Load limit device

Yes No N/A

This crane will require a load limit monitoring device to be fitted for the long term compliance with the Australian Standards.

Hoist motors

Safe At Risk N/A

Air gap

checked all limits all OK Adjustments made to limit settings Adjustment is required Repairs required

Couplings

Safe At Risk N/A

Transmission is free from noise and vibration

Yes No N/A

Gear box is free from Oil leaks

Yes No N/A

Mountings

Safe At Risk N/A

Overall visual condition 10=Good, 1=Bad

Cross travel

CROSS TRAVEL

Cross travel wheels

Safe At Risk N/A

Overall wear condition.10=good.1=bad

Cross travel guide rollers

Yes No N/A

Transmission is free from noises and vibrations

Yes No N/A

Couplings

Safe At Risk N/A

Gears and keyways

Safe At Risk N/A

Cross travel Motors

Safe At Risk N/A

Air gaps

checked all limits all OK Adjustments made to limit settings Adjustment is required Repairs required

Gear box is free from Oil leaks

Yes No N/A

Mountings

Safe At Risk N/A

Cross travel buffers

Safe At Risk N/A

Cross travel Limit switches and control sensors

Safe At Risk N/A

Long travel

LONG TRAVEL DRIVES

Long travel wheels

Safe At Risk N/A

Transmission is free from noises and vibrations

Yes No N/A

Wear condition. 10=good.1=bad

Couplings

Safe At Risk N/A

Gears and keyways

Safe At Risk N/A

Motors

Safe At Risk N/A

Air gap

checked all limits all OK Adjustments made to limit settings Adjustment is required Repairs required

All gear boxes free of Oil leaks

Yes No N/A

Mountings

Safe At Risk N/A

Long travel buffers

Safe At Risk N/A

Limit switches and control sensors

Safe At Risk N/A

Electrical

ELECTRICAL

Collectors

Safe At Risk N/A

Collector shoe condition.10=good.1=bad

Busbar

Safe At Risk N/A

Busbar signage

Yes No N/A

Control box condition

Safe At Risk N/A

Control box

Contactors and control electrics

Safe At Risk N/A

Cables and catenary

Safe At Risk N/A

Pendant / radio TX

Safe At Risk N/A

Isolators

Safe At Risk N/A

Isolator signage

Yes No N/A

Tow arm and trolleys

Safe At Risk N/A

Structure

Structure

Runway rail condition

- Safe At Risk N/A
-

Rail fastener system

- J hooks welded billet railway cleats

Fasteners tight and sound

- Safe At Risk N/A
-

Wear on rail

- Safe At Risk N/A
-

Rail joints are smooth and correct for the rated duty cycle.

- Safe At Risk N/A

Wear on billet rail

- Safe At Risk N/A
-

welds are in good condition

- Safe At Risk N/A

Rail joints are smooth and correct for the rated duty cycle.

- Safe At Risk N/A
-

Wear on rail

Safe At Risk N/A

J hooks tight

Safe At Risk N/A

Double nuts are fitted and fastened

Safe At Risk N/A

Any J bolts missing or bent up?

Safe At Risk N/A

Rail joints are smooth and correct for the rated duty cycle.

Safe At Risk N/A

Building structure safe and sound

Safe At Risk N/A

Building design

Safe At Risk N/A

Year of Manufacture or when the last 10 year inspection was completed

Hoist is over 10 years old

Yes No

The following is an extract taken from the Australian Standards. 1418. This crane is now outside of the Australian standards and should be tagged out until remedial action can be performed that meets the below standard 7.4 ASSESSMENT FOR SUITABILITY FOR CONTINUED SAFE USE 7.4.1 Assessment for continued safe operation Cranes that have reached the end of their design life shall be assessed to ensure their suitability for continued use. Where the design life is unknown, this assessment should be carried out at 10-year intervals for the mechanical components and at 25-year intervals for the structure. The assessment shall also be undertaken where maintenance records indicate repeated failures of any critical component or where the crane has been subjected to an overload greater than 10% of the safe working load for either or both the structure and hoist.

Is the crane in suitable condition to return into operation safely

Yes No N/A

Crane has been removed from service and is now TAG OUT.

How old do you think the crane may be

Is the crane looking and performing in a manner that is suitable for a return to continued service?

Yes No N/A

Returned into active service...BUT revision of all crane operations and past life history to be conducted and a suitable maintenance programmed scheduled.

Crane has been removed from service and is now TAG OUT.

Please note that the working life of a Crane is a Maximum of 10 years from the date of first service, regardless of the frequency of use.

Is the Crane structure over 25 years old?

Yes No

A Crane Gantry has a maximum of 25 year life span. After this time period the crane must be removed from service and be fully dismantled and internally inspected, all worn items wear items and fatigue points are to be replaced, repaired or modified to meet the latest edition of the Australian Standards covering that type of crane or just sold as scrap steel. This CRANE HAS BEEN TAGGED OUT and must not be used until remedial works have been completed. 7.4 ASSESSMENT FOR SUITABILITY FOR CONTINUED SAFE USE 7.4.1 Assessment for continued safe operation Cranes that have reached the end of their design life shall be assessed to ensure their suitability for continued use. Where the design life is unknown, this assessment should be carried out at 10-year intervals for the mechanical components and at 25-year intervals for the structure.

General Items

GENERAL ITEMS

Signage general

Yes No N/A

Compass signage

Yes No N/A

Crane free from deformations and damage.

Yes No N/A

Crow's nest / service access

Safe At Risk N/A

Access ladder condition

Safe At Risk N/A

Any comments

Any sketch that may help.

Crane suitable for continued use

Yes No

This crane is to be tag out of use until repairs are made

Any items that will require attention before the next service

Yes No N/A

Highlighted items for urgent repair.

Service Tech

Donald Kempf

David Duprat

Inspection technician to sign. All work has been done to comply with the relevant Australian Standards.

Time off site

Next routine inspection and service due

Customer to sign

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