

Keadby Moving Bridge

1 Every Maintenance Examination/Visit

1.1 Records

- a) The logbook shall be checked for any recorded faults and completed following completion of the maintenance activity and the electrical installation shall be checked that it is in date for Electrical Inspection and Test to BS7671.
- b) On leaving site complete and sign logbook, then sign out in the Visitor's logbook

2 'B' Examination

2.1 Bridge Raising Jacks

- a) The jacks shall be checked for satisfactory condition and security.
- b) The hydraulic pipes shall be checked for satisfactory condition and security.
- c) The limit switches/sensors shall be checked for correct operation, satisfactory condition, and security.
- d) The hydraulic seals shall be checked for leaks.

2.2 Wedges (including room and mechanism)

- a) The wedge paths and drives shall be lubricated if required.
- b) The wedge rod rollers shall be cleaned and lubricated if required.
- c) The wedge rods shall be checked for alignment.
- d) All hydraulic pipes shall be checked for satisfactory operation and security.
- e) The limit switches/sensors shall be checked for correct operation, satisfactory condition and security.
- f) The bolts and slides shall be lubricated.
- g) The bed bolts shall be checked for security.

2.3 SR Nose Bolt (including locating hole)

- a) All moving parts shall be lubricated (including location hole).
- b) The limit switches/sensors shall be checked for correct operation, satisfactory condition and security.
- c) The alignment shall be checked.
- d) The electrical connections shall be checked for security.
- e) The hydraulic pipes shall be checked for satisfactory condition and security.
- f) The hydraulic seals shall be checked for leaks.

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2.4 Haulage Mechanism (including rope and cable rollers)

- a) The rails shall be cleared of debris as required
- b) All wheels shall be cleaned and lubricated if required
- c) The rope attachment be lubricated if required
- d) The main wheel locating flange shall be inspected for excess wear
- e) Check the return pulleys rotates when the bridge is operated
- f) Check the main cable drums rotates when the bridge is operated
- g) The main cable drums shall inspected for security and lubricated if required
- h) The limit switches/sensors shall be checked for correct operation, satisfactory condition and security
- i) Any excess noise from the main wheel shall be noted

2.5 General Hydraulics

- a) Visually inspect all connections for condition and security.
- b) Check all hoses for condition and security.
- c) Check the hydraulic oil level.
- d) The pumps shall be checked for leaks and the gland adjusted if required.
- e) The oil level in the tank shall be checked and topped up if required.

2.6 Flood Lights

- a) The floodlights shall be checked for satisfactory condition, security and operation

2.7 Public Walkway Gates

- a) Check the warning lights for security, correct operation and condition
- b) Check the locks for security, correct operation and condition
- c) Check the audible alarm for security, correct operation and condition

2.8 Operational Checks

- a) Undertake a full operational check of the bridge

2.9 Equipment Rooms

- a) The machine/plant rooms shall be swept kept clear of debris

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3 "C" Examination

3.1 Bridge Raising Jacks

- a) Perform 'B' examination

3.2 Wedges (including room and mechanism)

- a) Perform 'B' examination
- b) The manual mechanism shall be lubricated if required.
- c) The wedge block pads shall be checked for satisfactory condition and security.

3.3 SR Nose Bolt (including locating hole)

- a) Carry out 'B' examination

3.4 Haulage Mechanism (including rope and cable rollers)

- a) Carry out 'B' examination.
- b) The main wheel locating flange shall be inspected for excess wear.
- c) The rear wheels locating flange shall be inspected for excess wear.
- d) The return pulleys shall inspected for security, and lubricated if required.
- e) Check the main cable drums rotates when the bridge is operated
- f) The main cable drums shall inspected for security and lubricated if required
- g) The cable rollers shall inspected for security and lubricated if required.
- h) Check condition of the pedestals and lubricate if required.

3.5 General Hydraulics

- a) Carry out 'B' examination.
- b) The pumps shall be lubricated at the grease nipple.
- c) The pump motors shall be checked for satisfactory condition and security.

3.6 Navigation Lights

- a) The lights shall be checked for correct operation and renew if required

3.7 Flood Lights

- a) Carry out 'B' examination.

3.8 Public Walkway Gates

- a) Carry out 'B' examination.

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3.9 Generator

3.9.1 Engine Fuel System and Fuel Storage Tanks

- a) The fuel level in the fuel tank shall be checked and topped up if required.

3.9.2 Engine Fluids and Fan Belts

- a) The engine oil level shall be checked and topped up if required.
- b) The coolant level shall be checked and topped up if required.
- c) The drive belts shall be checked for satisfactory condition, security and tension.

3.10 Engine Exhaust System

- a) Engine Primary and Secondary Start Systems.

3.11 Engine Start, Control System, Batteries and Charger

- a) The battery charger shall be checked for correct charge rate.

3.12 Safety Shut-down Systems

- a) The generator stop button shall be checked

3.13 Operational Checks

- a) As for 'B' examination.

3.14 Equipment Rooms

- a) As for 'B' examination.

4 'D' Examination

4.1 Bridge Raising Jacks

- a) Perform 'B' examination

4.2 Wedges (including room and mechanism)

- a) Perform 'B' and 'C' examinations
- b) Check the manual mechanism for correct operation.
- c) The gear wheel cogs shall be lubricated as required.

4.3 SR Nose Bolt (including locating hole)

- a) Carry out 'B' examination

4.4 Haulage Mechanism (including rope and cable rollers)

- a) Carry out 'B' and 'C' examinations.
- b) The main wheel centering device shall be lubricated if required.