

# MAINMAN ASSESSMENT REPORT

KONECRANES

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Report created: Jul 20, 2023, 8:35:21 AM

## Customer and Service Information

<b>Customer</b>	Tidewater Inc		
<b>Business Location</b>	US Army Reserve Center		
<b>Address</b>	49 Jetview Dr, Rochester		
<b>Agreement</b>	U240 - US Army Reserve Center		
<b>Service Request</b>	1-99185270090		
<b>Description</b>	ROC - June/2023 Routine Maintenance, MAINMAN Assessment		
<b>PO Number</b>	NY126		
<b>Billing Type</b>	Fixed		
<b>Customer Contact</b>	John Granata 585-944-9099 john.f.granata.ctr@army.mil	<b>Konecranes Contact</b>	Kelsey Quarterman 614-863-0150 kelsey.quarterman@konecranes.com

## Summary

<b>Service Request Status:</b>	Completed
<b>Service Products:</b>	Routine Maintenance, MAINMAN Assessment
<b>Assets Serviced:</b>	1

## Findings and Actions

## Findings and Actions by Asset (Top 5)

2 Repaired Items

001

2

**Note!** The condition of certain components on serviced/inspected cranes cannot be directly verified through visual inspection without further disassembly and/or the use of other inspection methods. These advanced services are excluded from the scope of this service. Inspection frequency for these components should follow OEM recommendations and/or governing regulations. These components are listed separately and identified as follows:

Undetermined Conditions (Unable to Inspect - Not in Scope)

## Findings and Actions (1 Assets)



001

Single girder EOT - 1 trolley 1 electric wire rope hoist, Capacity = 10t, MFG = OTHER, Location = MAINT.

Manufacturer	R&M CRANE	Model	SINGLE GIRDER
Serial Number	1-93883415745	Install Date	2012-03-30
Criticality	Low	Span	100ft
Site Location	Bldg 104 - Workbay	Lift	25ft
Capacity/SWL	10 Ton	Volt/Ph/Hz	460-3-60
		Duty Class	C
		Environment	Indoors

Service Products Routine Maintenance &amp; MAINMAN Assessment

✓ / !      Comment

Maintenance log book

✓ **Markings** – Visual assessment✓ **Documentation** – Visual assessment

Bridge

Structure

Main girder

- ✓ **Main girder beam and markings** – Visual assessment
- ✓ **Main girder connection** – Visual assessment
- ✓ **Trolley rail** – Visual assessment
- ✓ **Trolley rail end stops** – Visual assessment

End truck

- ✓ **End truck structure** – Visual assessment
- ✓ **Crane driving wheel and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Crane idle wheel and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Crane bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

End truck

- ✓ **End truck structure** – Visual assessment
- ✓ **Crane driving wheel and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Crane idle wheel and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Crane bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

## Crane travelling machinery

- ✓ **Travelling gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Travelling motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Travelling brake** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Protection guards and covers** – Visual assessment

## Crane travelling machinery

- ✓ **Travelling gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Travelling motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Travelling brake** – Adjust, Visual assessment, Clean, Operational assessment
- ✓ **Protection guards and covers** – Visual assessment

## Trolley

### Structure

- ✓ **Trolley intermediate structure** – Visual assessment

#### Trolley idle side

- ✓ **Trolley idle side structure** – Visual assessment
- ✓ **Trolley idle wheel and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Trolley idle wheel and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Trolley bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

#### Trolley driving side

- ✓ **Trolley driving side structure** – Visual assessment
- ✓ **Trolley driving wheel and bearings** – Visual assessment, Lubricate, Operational assessment...
- ✓ **Trolley driving wheel and bearings** – Visual assessment, Lubricate, Operational assessment...
- ✓ **Trolley bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment
- ✓ **Connection rod** – Visual assessment

## Trolley traversing machinery

- ✓ **Traversing gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Traversing motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Traversing brake** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Protection guards and covers** – Visual assessment

## Hoist structure

- ✓ **Frame** – Visual assessment
- ✓ **Hoist suspension structure** – Visual assessment

## Hoisting machinery R & M

- ✓ **Hoisting gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Hoisting coupling** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Hoisting motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Hoisting brake - holding** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Hoisting brake - control** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Rope drum** – Visual assessment, Operational assessment
- ✓ **Rope guide** – Visual assessment, Lubricate, Operational assessment
- ✓ **Rope clamps** – Visual assessment
- ✓ **Rope drum bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Rope anchorage** – Visual assessment
- ✓ **Hoisting wire rope** – Visual assessment, Lubricate, Operational assessment
- ✓ **Upper block** – Visual assessment
  - ✓ **Upper block structure** – Visual assessment
  - ✓ **Rope sheave and bearings** – Visual assessment, Lubricate, Operational assessment

## Hook block

- ✓ **Hook block structure and markings** – Visual assessment
- ✓ **Rope sheave and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Thrust ball bearing** – Lubricate, Operational assessment
- ✓ **Hook forging Opening** – Visual assessment
- ✓ **Latch** – Visual assessment, Operational assessment

## Electrics

### Power supply

- ✓ **Runway mainline disconnect** – Visual assessment, Operational assessment
- ✓ **Runway power supply** – Visual assessment, Operational assessment
  - ✓ **Tow arm** – Visual assessment
  - ✓ **Collector assembly** – Visual assessment, Operational assessment
  - ✓ **Conductor** – Visual assessment
- ✓ **Crane main switch** – Visual assessment, Operational assessment
- ✓ **Trolley power supply Trolley power supply** – Visual assessment, Operational assessment
  - ✓ **Tow arm** – Visual assessment
  - ✓ **Festoon cable** – Visual assessment
  - ✓ **Cable trolley** – Visual assessment, Operational assessment
- ✓ **Pendant power supply** – Visual assessment, Operational assessment

✓ **Connection box** – Visual assessment

✓ **Festoon cable** – Visual assessment

#### Control system

✓ **Bridge cubicle** – Visual assessment

✓ **General wiring and conduits** – Visual assessment

✓ **Resistor cubicle** – Visual assessment

✓ **Operation control**

**Repaired**

**Date Reported:** Jun 28, 2023

**Technician:** Jeff Wiegand

**Task Type:** Change

**Fault Code:** Other fault

**Risk:** **Safety Risk**

**Recommendation:** Install Product

**Comment:**

Crane transformer is shorted out, replacement required. Crane will not operate until transformer is replaced. Arrived onsite meet with customer completed power began removing transformer and installing replacement turned power back on and found phase rotation contractor was frozen will need to reschedule another visit to replace contactor

✓ **Operation control**

**Repaired**

**Date Reported:** Jun 28, 2023

**Technician:** Jeff Wiegand

**Task Type:** Change

**Fault Code:** Other fault

**Risk:** **Safety Risk**

**Recommendation:** Install Product

**Comment:** No action needed

✓ **Travelling inverter** – Visual assessment, Clean, Operational assessment

✓ **Trolley cubicle** – Visual assessment

✓ **General wiring and conduits** – Visual assessment

✓ **Operation control** – Visual assessment, Operational assessment

✓ **Traversing inverter** – Visual assessment, Clean, Operational assessment

✓ **Hoist cubicle** – Visual assessment

✓ **General wiring and conduits** – Visual assessment

✓ **Operation control** – Visual assessment, Operational assessment

✓ **Pushbutton pendant** – Visual assessment, Operational assessment

✓ **Pushbutton pendant cable** – Visual assessment

✓ **Hoisting limit switches** – Adjust, Visual assessment, Operational assessment

✓ **Overload protector** – Visual assessment, Lubricate, Clean, Operational assessment

✓ **Condition monitoring unit** – Measure, Operational assessment

✓ **Warning devices** – Operational assessment

✓ **Operation control** – Visual assessment, Operational assessment

Runway

Beam

✓ **End stops** – Visual assessment

Beam

✓ **End stops** – Visual assessment



Jun 28, 2023 Jeff Wiegand, Technician

Undetermined Conditions: Unable to Inspect - Not in Scope (1 Assets)



001

Single girder EOT - 1 trolley 1 electric wire rope hoist, Capacity = 10t, MFG = OTHER, Location = MAINT.

Jun 28, 2023

	<b>! Hoisting coupling - internal</b>	<b>Notification</b>
<b>Fault Code:</b>	Not in Scope	
<b>Risk:</b>	<b>Undetermined Condition</b>	
<b>Recommendation:</b>	Disassemble/Inspect	
<b>Comment:</b>	Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations	
	<b>! Hook nut and locking parts</b>	<b>Notification</b>
<b>Fault Code:</b>	Not in Scope	
<b>Risk:</b>	<b>Undetermined Condition</b>	
<b>Recommendation:</b>	Disassemble/Inspect	
<b>Comment:</b>	Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations	
	<b>! Hook forging - internal</b>	<b>Notification</b>
<b>Fault Code:</b>	Not in Scope	
<b>Risk:</b>	<b>Undetermined Condition</b>	
<b>Recommendation:</b>	Disassemble/Inspect	
<b>Comment:</b>	Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations	

Jun 28, 2023

## Component Condition

✓ Acceptable (No issues detected)

! Need Attention

## Findings and Actions

### **Safety Risk** **WARNING**

Indicates an unsafe condition. Failure to remedy such condition before continued operation of the identified asset may result in personal injury, including death, or property damage.

### **Production Risk**

Indicates an inefficient condition. Failure to remedy such condition before continued operation of the identified asset may result in inefficient asset performance or an interruption in production.

### **Undetermined Condition**

Unable to Inspect - Not in Scope

Indicates that the component condition could not be directly verified through visual inspection without further disassembly and/or the use of other inspection methods.

These advanced services are generally excluded from the scope of typical compliance and preventive maintenance inspections. Consultation Services may be added to a Service Program or offered on a stand-alone basis to assess the condition of these components.

Inspection frequency for these components should follow OEM recommendations and/or governing regulations. If these are not readily available, Konecranes recommendations may be used.

If no records are available, disassembly/inspections of these components should be carried out without delay to determine their current condition and to establish a baseline for subsequent inspections.

### **Undetermined Condition**

Not able to Complete

Indicates that the component condition could not be directly verified through visual inspection as a result of asset configuration and/or obstruction. In this case, the visual inspection was part of the service scope but it was not completed.

### **Improvement Opportunity**

Indicates a potential opportunity to improve the safety, productivity, application or useful life of the asset.

### **Acceptable / Repaired Item**

Component condition is verified by Konecranes service technician. No actions required. If a component or other object has been repaired within the service visit, green color code is shown as well.

Repaired Items correspond to those repairs performed by, observed by or reported to the Konecranes Technician during the delivery of the referenced Service Request.

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