

# **TRESTER**

**HOIST AND EQUIPMENT**  
*Service*

*Combining Safety and Productivity*

## Hoist Inspection

Prepared for Customer Name

123 Main St.  
Atlanta GA 301215

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 High  Med  Low Section

Periodic Electric Wire Rope Hoist Inspection - <i>Test Location</i>	Electric Wire Rope Hoist: <i>YUIOPHH - 1435465</i>	0	10	6	<b>1.0</b>
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Trestler Hoist & Equipment  
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 Menomonee Falls, Wisconsin 53051  
 262-790-0700

**Periodic Electric Wire Rope Hoist Inspection**

FolderID: Sample  
 FormID: 2814295

**Customer Name**  
 123 Main St.  
 Atlanta, GA 301215






**Electric Wire Rope Hoist**











**Completed by:** Jeremiah Langford on 1/9/2018  
**Location:** Test Location  
**Serial Number:** YUIOPHH  
**RFID Number** 1435465  
**#Asset Number:**  
**Status:** In Service

**Hoist Manufacturer:** Yale  
**Hoist Model / Lot:** Yal454999  
**Hoist Suspension:** Through Bolt  
**Hoist Mounting:** Parallel  
**Hoist Capacity:** 5 Ton  
**Hoist Control Operation:** Remote with Station Backup  
**Hoist Control Speed:** 2 Step VFD  
**Hoist FPM:** 14  
**Hoist Voltage:** 230v Three Phase  
**Hoist Line Type:** Parallel  
**Hoist Rope Reeving:** 4  
**Approximate Lift:** 20  
**Crane Structure:** Bridge  
**Trolley Type:** Motorized  
**Trolley Manufacturer:** Yale  
**Trolley Serial Number:** 12345  
**Trolley Model / Lot:** BH12345  
**Trolley Capacity:** 5 Ton  
**Trolley Running Type:** Top Running  
**Powered Trolley Control Speed:** 2 Step VFD  
**Powered Trolley FPM:** Unknown  
**Trolley Tractor Manufacturer:** None  
**Trolley Tractor Serial Number:** None  
**Trolley Tractor Model:** None  
**Crane Manufacturer:** Abell-Howe  
**Crane Serial Number** 12345  
**#Asset Number:**  
**Crane Model:** None  
**Crane Capacity:** 5 Ton  
**Crane Running Type:** Top Running  
**Crane Drive:** Motorized  
**Powered Crane Control Speed:** 2 Step VFD  
**Powered Crane FPM:** Unknown  
**Crane Beam Type:** S Flange Beam (Tapered Flange)

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<b>Crane Beam Flange Width:</b>	8
<b>Crane Girder or Beam Setup:</b>	Double
<b>Runway Beam Type:</b>	S Flange Beam (Tapered Flange)
<b>Bridge Tractor Manufacturer (North or East):</b>	None
<b>Bridge Tractor Serial Number (North or East):</b>	None
<b>Bridge Tractor Model (North or East):</b>	None
<b>Bridge Tractor Manufacturer (South or West):</b>	None
<b>Bridge Tractor Serial Number (South or West):</b>	None
<b>Bridge Tractor Model (South or West):</b>	None
<b>Special Applications:</b>	None

Priorities Found:  10 - Medium  6 - Low  74 - Good

<b>Status</b>	
 1. Can unit be inspected?	<b>(YES) Yes</b>
 2. Is this an OSHA regulated, double girder, top running bridge, top running trolley unit constructed on or after August 31, 1971? (An "unknown" answer will be treated as a "yes")	<b>(YES) Yes</b>
3. Preventive Maintenance (Hoist and Crane) [OSHA 1910.179] <i>Preventive maintenance plan required. OSHA 1910.179(l)(1) Preventive maintenance. A preventive maintenance program based on the crane manufacturer's recommendations shall be established. Trester Hoist has a customized preventative maintenance program available to meet this requirement.</i>	
<b>Frames</b>	
 4. Securely Fastened [ASME B30.2]	<b>(OK) Okay</b>
 5. Damage [ASME B30.2]	<b>(OK) Okay</b>
 6. Identification and Capacity [ASME B30.2]	<b>(OK) Okay</b>
 7. Oil Level / Seals / Gaskets [ASME B30.2]	<b>(OK) Okay</b>
<b>Brake</b>	
 8. Proper Operation [ASME B30.2]	<b>(OK) Okay</b>
 9. Brake Discs or Shoes [OSHA 1910.179, ASME B30.2]	<b>(OK) Okay</b>
 10. Brake Studs [ASME B30.2]	<b>(OK) Okay</b>
 11. Gap Spacing [ASME B30.2]	<b>(OK) Okay</b>

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- 12. Coil & Shading Coil [ASME B30.2] **(RP) Replace Part**
  - *Buzzing - ASME B30.2-2.1.3(b)(5) The inspection shall include the following: Excessive wear of brake system parts.*
  - Replace brake assembly*



- 13. Field and Armature or Solenoid [ASME B30.2] **(RP) Replace Part**
  - *Delaminated - ASME B30.2-2.1.3(b)(5) The inspection shall include the following: Excessive wear of brake system parts.*
  - Replace brake assembly*



### Electrical

- 14. Phasing [ASME B30.2] **(OK) Okay**
- 15. Power Cord [ASME B30.2] **(RP) Replace Part**
  - *Cut, damaged, or spliced cord - ASME B30.2-1.13.2(a) Electrical equipment shall be located or enclosed so that, under normal operating conditions, energized parts will not be exposed to inadvertent contact.*
  - Replace power cord*



- 16. Contactor [ASME B30.2] **(OK) Okay**
- 17. Electrical Apparatus [ASME B30.2] **(OK) Okay**
- 18. Limit Switch [OSHA 1910.179] **(OK) Okay**
- 19. Over and Lower Travel Limit [OSHA 1910.179, ASME B30.2] **(OK) Okay**
- 20. Control Cord [OSHA 1910.179, ASME B30.2] **(OK) Okay**

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21. Control Station [OSHA 1910.179] **(RP) Replace Part**

**Damaged - OSHA 1910.179(g)(1)(v) Pendant control boxes shall be constructed to prevent electrical shock and shall be clearly marked for identification of functions.**

*Replace station*



22. Control Switch [OSHA 1910.179, ASME B30.2] **(OK) Okay**

23. Warning Tag [ASME B30.2] **(OK) Okay**

24. Transmitter and Receiver [OSHA 1910.179, ASME B30.2] **(OK) Okay**

### Drum

25. Drum and Guide [OSHA 1910.179, ASME B30.2] **(OK) Okay**

### Wire Rope

26. Clean and Lubricated [ASME B30.2] **(OK) Okay**

27. Excess Wear or Damage [OSHA 1910.179, ASME B30.2] **(MO) Monitor**

**Frequent rope inspection required - OSHA 1910.179(m)(1) Running ropes. A thorough inspection of all ropes shall be made at least once a month and a certification record which includes the date of inspection, the signature of the person who performed the inspection and an identifier for the ropes which were inspected shall be kept on file where readily available to appointed personal.**

*Participate in Trester's PM program*

28. Stretch [OSHA 1910.179, ASME B30.2] **(MO) Monitor**

**Frequent rope inspection is required - OSHA 1910.179(m)(1) Running ropes. A thorough inspection of all ropes shall be made at least once a month and a certification record which includes the date of inspection, the signature of the person who performed the inspection and an identifier for the ropes which were inspected shall be kept on file where readily available to appointed personal.**

*Participate in Trester's PM program*

29. End Connection and Anchor Pin [OSHA 1910.179, ASME B30.2] **(MO) Monitor**

**Frequent rope inspection is required - OSHA 1910.179(m)(1) Running ropes. A thorough inspection of all ropes shall be made at least once a month and a certification record which includes the date of inspection, the signature of the person who performed the inspection and an identifier for the ropes which were inspected shall be kept on file where readily available to appointed personal.**

*Participate in Trester's PM program*

30. Reeving [OSHA 1910.179] **(MO) Monitor**

**Frequent rope inspection is required - OSHA 1910.179(m)(1) Running ropes. A thorough inspection of all ropes shall be made at least once a month and a certification record which includes the date of inspection, the signature of the person who performed the inspection and an identifier for the ropes which were inspected shall be kept on file where readily available to appointed personal.**

*Participate in Trester's PM program*

### Load Block and Sheave(s)

31. Sheave(s) [OSHA 1910.179] **(OK) Okay**

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● 32. Load Block [OSHA 1910.179, ASME B30.2]	(OK) Okay
<b>Hooks</b>	
● 33. Retaining Hardware (Nuts and/or Collars) [ASME B30.10]	(OK) Okay
● 34. Rotation [ASME B30.2]	(OK) Okay
● 35. Safety Latches [ASME B30.10]	(OK) Okay
● 36. Throat Opening [OSHA 1910.179, ASME B30.10]	(MO) Monitor
<p>☞ <i>Frequent hook inspection required - OSHA 1910.179(j)(2)(iii) Hooks with deformation or cracks. Visual inspection daily; monthly inspection with a certification record which includes the date of inspection, the signature of the person who performed the inspection and the serial number, or other identifier, of the hook inspected.</i></p> <p><i>Participate in Trester's PM program</i></p>	
● 37. Deformation [OSHA 1910.179, ASME B30.10]	(MO) Monitor
<p>☞ <i>Frequent hook inspection required - OSHA 1910.179(j)(2)(iii) Hooks with deformation or cracks. Visual inspection daily; monthly inspection with a certification record which includes the date of inspection, the signature of the person who performed the inspection and the serial number, or other identifier, of the hook inspected.</i></p> <p><i>Participate in Trester's PM program</i></p>	
<b>Trolley Wheels</b>	
● 38. Spacing [CMAA 70]	(OK) Okay
● 39. Flange [ASME B30.2]	(OK) Okay
● 40. Tread [ASME B30.2]	(OK) Okay
● 41. Bearings [ASME B30.2]	(OK) Okay
● 42. Drive Wheels [ASME B30.2, CMAA 70]	(OK) Okay
● 43. Drive Pinion and Coupling [ASME B30.2]	(OK) Okay
<b>Trolley Frame</b>	
● 44. Frame [CMAA 70]	(OK) Okay
● 45. Identification and Capacity [ASME B30.2]	(RP) Replace Part
<p>☞ <i>Missing or illegible capacity - ASME B30.2-1.1.2(a) The rated load of the hoist shall be marked on the hoist or trolley unit or its load block and shall be legible from the ground or floor.</i></p> <p><i>Replace capacity label (generic)</i></p>	
● 46. Drop Limiter [ASME B30.2]	(OK) Okay
● 47. Bolts, Pins, Nuts and Turnout Prevention [ASME B30.2]	(OK) Okay
● 48. Clevis or Hanger [ASME B30.2]	(OK) Okay
<b>Motorized Trolley</b>	
● 49. Bumpers [OSHA 1910.179]	(OK) Okay
● 50. Brake (If Applicable) [OSHA 1910.179, ASME B30.2]	(OK) Okay
● 51. Oil Level / Seals / Gaskets / Vent [ASME B30.2]	(RP) Replace Part
<p>☞ <i>Oil level low - ASME B30.2-2.3.4(a) All moving parts of the crane for which lubrication is specified should be regularly lubricated. Lubricating means should be checked for delivery of lubricant. Care should be taken to follow recommendations stated in the crane manufacturer's manual as to points and frequency of lubrication, maintenance of lubrication levels, and types of lubricant to be used.</i></p> <p><i>Add oil</i></p>	
● 52. Control Panel Enclosure [ASME B30.2]	(OK) Okay
● 53. Internal Electrical Components [ASME B30.2]	(OK) Okay
<b>Crane Wheels</b>	
● 54. Flange [ASME B30.2]	(OK) Okay

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● 55. Tread [ASME B30.2]	(OK) Okay
● 56. Bearings [ASME B30.2]	(OK) Okay
● 57. Drive Wheels [ASME B30.2]	(OK) Okay
● 58. Drive Pinion and Coupling [ASME B30.2]	(OK) Okay
<b>Crane Structure</b>	
● 59. Operation [ASME B30.2]	(OK) Okay
● 60. Supports [ASME B30.2]	(OK) Okay
● 61. Structure [OSHA 1910.179, ASME B30.2, CMAA 78]	(OK) Okay
● 62. Identification and Capacity [OSHA 1910.179, ASME B30.2]	(OK) Okay
● 63. Clearance [OSHA 1910.179, ASME B30.2]	(OK) Okay
● 64. Level [ASME B30.2]	(OK) Okay
● 65. Festoon / Tagline / Cord Reel / Collectors [OSHA 1910.179, ASME B30.2]	(RP) Replace Part
<p>■ <i>Broken collector arm(s) - ASME B30.2-1.13.6 Conductors of the open type, mounted on the crane runway beams or overhead, shall be so located or guarded that persons cannot inadvertently come into contact with the energized conductors under normal operating conditions or under maintenance procedures as stated in para. 2-2.3.2</i></p> <p><i>Replace collector arm(s)</i></p>	
● 66. Stack Up [ASME B30.2]	(OK) Okay
● 67. Foundations [ASME B30.2]	(OK) Okay
<b>Bridge or Beam Rail</b>	
● 68. Structure [CMAA 78]	(OK) Okay
● 69. Rail Clips [CMAA 78]	(OK) Okay
● 70. J-Bolts [CMAA 78]	(LO) Labor Only Repair
<p>■ <i>Loose J-bolts - CMAA 78-4.4-2 Check rails and fastening devices for looseness, gaps, misalignment, and wear.</i></p> <p><i>Tighten J-bolts</i></p>	
● 71. Straightness [CMAA 70]	(OK) Okay
● 72. Span [CMAA 70]	(OK) Okay
● 73. Elevation [CMAA 70]	(OK) Okay
● 74. Rail-To-Rail Elevation [CMAA 70]	(OK) Okay
● 75. Splices [CMAA 70]	(OK) Okay
● 76. Sweeps [OSHA 1910.179]	(RP) Replace Part
<p>■ <i>Broken sweeps - OSHA 1910.179(e)(4) Rail sweeps. Bridge trucks shall be equipped with sweeps which extend below the top of the rail and project in front of the truck wheels.</i></p> <p><i>Replace sweeps</i></p>	
<b>Runway Rail</b>	
● 77. Structure [CMAA 78]	(OK) Okay
● 78. Rail Clips [CMAA 78]	(OK) Okay
● 79. J-Bolts [CMAA 78]	(OK) Okay
● 80. Straightness [CMAA 70]	(OK) Okay
● 81. Span [CMAA 70]	(OK) Okay
● 82. Elevation [CMAA 70]	(OK) Okay
● 83. Rail-To-Rail Elevation [CMAA 70]	(OK) Okay
● 84. Splices [CMAA 70]	(OK) Okay
● 85. Sweeps [OSHA 1910.179]	(OK) Okay
<b>Motorized Crane</b>	

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<p>86. Bumpers [OSHA 1910.179]</p> <p>☐ <i>Damaged bumpers - OSHA 1910.179(e)(2)(ii) Bumpers shall be so designed and installed as to minimize parts falling from the crane in case of breakage.</i></p> <p><i>Replace bumpers</i></p>	<p><b>(RP) Replace Part</b></p>
<p>87. Brake (If Applicable) [OSHA 1910.179, ASME B30.2]</p>	<p><b>(OK) Okay</b></p>
<p>88. Oil Level / Seals / Gaskets [ASME B30.2]</p>	<p><b>(OK) Okay</b></p>
<p>89. Control Panel Enclosure [OSHA 1910.179, ASME B30.2]</p>	<p><b>(OK) Okay</b></p>
<p>90. Internal Electrical Components [ASME B30.2]</p>	<p><b>(OK) Okay</b></p>
<p>91. Warning Device (Remote Controlled) [OSHA 1910.179]</p>	<p><b>(OK) Okay</b></p>
<p><b>Inspection</b></p>	
<p>92. Inspector</p>  <p>☐ <i>Jeremiah Langford</i></p>	
<p>93. Date Inspected</p>	<p><b>01/09/2018</b></p>
<p>94. IMPORTANT INFORMATION ABOUT REPAIRS:</p> <p><i>ASME requires that "Any condition disclosed by the inspections that is determined to be a hazard to continued operation shall be corrected by adjustment, repair, or replacement before continuing the use of the equipment". It also requires that you "Use replacement parts that are at least equal to the original manufacturer's specifications", and that "New, reinstalled, altered, repaired, and modified equipment should be load tested prior to initial use as determined by a qualified person" and further states that you "Do not attempt to repair a damaged wire rope or load chain".</i></p> <p><i>In regard of existing installations, ASME states that "Equipment manufactured and facilities constructed prior to the effective date of this Volume of the B30 Standard shall be subject to the inspection, testing, maintenance, and operation requirements of this Standard." However, they also allow for "The need to meet the current requirements shall be evaluated by a qualified person selected by the owner".</i></p>	

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