

# **TRESTER**

**HOIST AND EQUIPMENT**  
*Service*

*Combining Safety and Productivity*

## Hoist Inspection

Prepared for Customer Name

123 Main St.  
Atlanta GA 301215

# Table of Contents

 High  Med  Low Section

Periodic Electric Chain Hoist Inspection - *Test*  
*Location*

Electric Chain Hoist: *SDFSDF* -  
*123456*

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Trester Hoist & Equipment  
 W136 N4863 Campbell Drive, Suite #6  
 Menomonee Falls, Wisconsin 53051  
 262-790-0700

## Periodic Electric Chain Hoist Inspection

### Customer Name

123 Main St.  
 Atlanta, GA 301215

FolderID: Sample  
 FormID: 2814307



### Electric Chain Hoist

Completed by: Jeremiah Langford on 1/9/2018

Location: Test Location

Serial Number: SDFSDF

RFID Number 123456

#Asset Number:

Status: In Service

Hoist Manufacturer:	Columbus McKinnon
Hoist Model / Lot:	F
Hoist Suspension:	Lug
Hoist Mounting:	Parallel
Hoist Capacity:	1/2 Ton
Hoist Control Operation:	Corded Station
Hoist Control Speed:	Single Speed
Hoist FPM:	16
Hoist Voltage:	230/460v
Hoist Reeving:	Single
Approximate Lift:	10
Chain Container:	Metal Bucket
Crane Structure:	Jib - Free Standing
Trolley Type:	Push/Pull
Trolley Manufacturer:	Columbus Mckinnon
Trolley Serial Number:	12345
Trolley Model / Lot:	CBTP
Trolley Capacity:	1/2 Ton
Trolley Running Type:	Underhung
Powered Trolley Control Speed:	None
Powered Trolley FPM:	None
Trolley Tractor Manufacturer:	None
Trolley Tractor Serial Number:	None
Trolley Tractor Model:	None
Crane Manufacturer:	Bushman
Crane Serial Number #Asset Number:	12345
Crane Model:	None
Crane Capacity:	1/2 Ton
Crane Running Type:	None
Crane Drive:	Push/Pull
Powered Crane Control Speed:	None
Powered Crane FPM:	None
Crane Beam Type:	S Flange Beam (Tapered Flange)

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Crane Beam Flange Width:	4
Crane Girder or Beam Setup:	Single
Runway Beam Type:	None
Bridge Tractor Manufacturer (North or East):	None
Bridge Tractor Serial Number (North or East):	None
Bridge Tractor Model (North or East):	None
Bridge Tractor Manufacturer (South or West):	None
Bridge Tractor Serial Number (South or West):	None
Bridge Tractor Model (South or West):	None
Special Applications:	Outdoor Application

Priorities Found: 2 - High 7 - Medium 47 - Good

Status	
1.	Can unit be inspected? <span style="float: right;">(YES) Yes</span>
2.	Preventive Maintenance (Hoist) [ASME B30.16] <i>Preventive maintenance plan recommended. ASME B30.16-2.3.1(a) A preventive maintenance program should be established. The program should be based on recommendations outlined in the hoist manufacturer's manual. If a qualified person determines it is appropriate, the program should also include that individual's additional recommendations based upon a review of the hoist application and operation. Dated records should be placed on file. Trester Hoist has a customized preventative maintenance program available to meet this requirement.</i>
3.	Preventive Maintenance (Crane) [ASME B30.17] <i>Preventive maintenance plan required. ASME B30.17-4.2.2 A preventive maintenance program shall be established. The preventive maintenance program should be based on the equipment manufacturer's recommendations and when appropriate, recommendations by a qualified person based upon review of the equipment application and operation. Dated records should be placed on file. Trester Hoist has a customized preventative maintenance program available to meet this requirement.</i>
Suspension	
4.	Suspension Assemblies [ASME B30.16] <span style="float: right;">(OK) Okay</span>
Frames	
5.	Securely Fastened [ASME B30.16] <span style="float: right;">(OK) Okay</span>

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6. Damage [ASME B30.16] **(SI) Safety Issue (Immediately discontinue use of unit)**

Cracked, bent, or damaged frame - ASME B30.16-2.1.3(d)(3) The following items shall be inspected: Load blocks, suspension housings, hand chain wheels, chain attachments, clevises, yokes, suspension bolts, shafts, gears, bearings, pins, rollers, and locking and clamping devices for evidences of wear, corrosion, cracks, and distortion.

Send unit to Trester



7. Identification and Capacity [ASME B30.16] (OK) Okay

8. Oil Level / Seals / Gaskets [ASME B30.16] (OK) Okay

9. Chain Guides [ASME B30.16] (OK) Okay

### Chain Container

10. Attachment [ASME B30.16] (OK) Okay

11. Retaining Strap [ASME B30.16] (OK) Okay

12. Condition [ASME B30.16] (OK) Okay

13. Size [ASME B30.16] (RP) Replace Part

Chain container too small - Chain in fully loaded container shall not exceed 75% of container height. ASME B30.16-2.1.2(b) A designated person shall determine whether conditions found during the inspection constitute a hazard and whether a more detailed inspection is required.

Replace chain container

14. Proper Container [ASME B30.16] (OK) Okay

### Brake

15. Proper Operation [ASME B30.16] (OK) Okay

16. Brake Discs or Shoes [ASME B30.16] (RP) Replace Part

Splines worn - ASME B30.16-2.1.3(d)(7) The following items shall be inspected: The motor brake and load brake on electric- or air-powered hoists for evidence of wear.

Replace brake discs or shoes



17. Brake Studs [ASME B30.16] (OK) Okay

18. Gap Spacing [ASME B30.16] (OK) Okay

19. Coil & Shading Coil [ASME B30.16] (OK) Okay

20. Field and Armature or Solenoid [ASME B30.16] (OK) Okay

### Electrical

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● 21. Phasing [ASME B30.16]	(OK) Okay
● 22. Power Cord [ASME B30.16]	(OK) Okay
● 23. Contactor [ASME B30.16]	(OK) Okay
● 24. Electrical Apparatus [ASME B30.16]	(OK) Okay
● 25. Limit Switch [ASME B30.16]	(OK) Okay
● 26. Control Cord [ASME B30.16]	(OK) Okay
● 27. Control Station [ASME B30.16]	(OK) Okay
● 28. Control Switch [ASME B30.16]	(OK) Okay
● 29. Warning Tag [ASME B30.16]	(RC) Repair Complete
<p>Missing - ASME B30.16-1.1.4(b) All electric-powered or air-powered hoists shall have affixed to the hoist, load block, or controls, a label or labels displaying information concerning operating procedures. The label or labels shall be in compliance with ANSI Z535.4 and shall include cautionary language.</p> <p>Warning tag replaced - \$5</p>	

### Load Chain

● 30. Clean and Lubricated [ASME B30.16]	(OK) Okay
● 31. Excess Wear or Damage [ASME B30.16]	(OK) Okay
● 32. Stretch [ASME B30.16]	(SI) Safety Issue (Immediately discontinue use of unit)
<p>Stretched - ASME B30.16-2.5.2(a) If the used chain exceeds the hoist manufacturer's recommended length (or in the absence of such recommendation, if the used chain for powered hoists is 1 1/2% longer than the unused chain), replace the chain.</p> <p>Send unit to Trester</p>	

● 33. End Link and Anchor Pin [ASME B30.16]	(OK) Okay
● 34. Reeving [ASME B30.16]	(OK) Okay

### Hooks


● 35. Retaining Hardware (Nuts and/or Collars) [ASME B30.10]	(OK) Okay
● 36. Rotation [ASME B30.16]	(OK) Okay
● 37. Safety Latches [ASME B30.10]	(OK) Okay
● 38. Throat Opening [ASME B30.10]	(OK) Okay
● 39. Deformation [ASME B30.10]	(RP) Replace Part
<p>Saddle wear - ASME B30.10-1.2.1.3(c)(3) Hooks having any of the following conditions shall be removed from service until repaired or replaced: Wear- Any wear exceeding 5% (or as recommended by the manufacturer) of the original section dimension of the hook or its load pin.</p> <p>Replace lower hook and block assembly</p>	



### Trolley Wheels

● 40. Spacing [ASME B30.17]	(OK) Okay
● 41. Flange [ASME B30.17]	(OK) Okay
● 42. Tread [ASME B30.17]	(OK) Okay

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43. Bearings [ASME B30.17]	(OK) Okay
<b>Trolley Frame</b>	
44. Frame [ASME B30.16]	(OK) Okay
45. Identification and Capacity [ASME B30.17]	(OK) Okay
46. Drop Limiter [ASME B30.17]	(OK) Okay
47. Bolts, Pins, Nuts and Turnout Prevention [ASME B30.17]	(OK) Okay
48. Clevis or Hanger [ASME B30.16]	(RP) Replace Part
<p>☐ <i>Saddle wear - ASME B30.16-2.1.3(d)(9) The following items shall be inspected: Supporting structure or trolley, if used, for evidence of damage.</i></p> <p><i>Replace clevis or hanger</i></p>	
<b>Crane Structure</b>	
49. Operation [ASME B30.17]	(OK) Okay
50. Structure [ASME B30.17, CMAA 74]	(OK) Okay
51. Identification and Capacity [ASME B30.17]	(RP) Replace Part
<p>☐ <i>Missing or illegible capacity on both sides (crane) - ASME B30.17-1.1.1(a) The rated load shall be marked on each side of the crane, and if the crane has more than one hoisting unit, each hoist shall have its rated load marked on the hoist or its load block so that the rated load marking shall be legible from the ground or floor.</i></p> <p><i>Replace capacity label(s) (stock)</i></p>	
52. Clearance [ASME B30.17]	(OK) Okay
53. Level [CMAA 74]	(OK) Okay
54. Festoon / Tagline / Cord Reel / Collectors [ASME B30.17]	(OK) Okay
55. Stack Up [ASME B30.17]	(OK) Okay
56. Foundations [ASME B30.17]	(OK) Okay
<b>Outdoor Application</b>	
57. Wind Device [ASME B30.17]	(RP) Replace Part
<p>☐ <i>Missing wind device - ASME B30.17-1.3.3(e) Other than portable gantries, a wind speed indicating device shall be provided for cranes used outdoors. The device should be mounted on the crane or the crane runway structure and shall give a visible and audible alarm to the crane operator at a predetermined wind speed. A single wind speed indicating device may serve as an alarm for more than one crane.</i></p> <p><i>Add wind device</i></p>	
58. Tie downs [ASME B30.17]	(RP) Replace Part
<p>☐ <i>Missing tie downs - ASME B30.2-1.3.1(b) Every outdoor crane shall be provided with a means to secure the crane against a wind pressure of 30 lb/ft<sup>2</sup>. Parking brakes may be considered to provide minimum compliance with this rule.</i></p> <p><i>Add tie downs</i></p>	
<b>Inspection</b>	
59. Inspector	
	
<p>☐ <i>Jeremiah Langford</i></p>	

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60. Date Inspected

01/09/2018

61. IMPORTANT INFORMATION ABOUT REPAIRS:

*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". 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".*