



Prepared for:

**Sautter Crane Rental**

on

4/29/2023

# DISCLAIMER

Inspection reports are based upon observed procedures and inspections performed by Atlantic Crane Inspection Services, but are not intended to replace or supersede the necessity for routine or preventative maintenance procedures recommended by others, such as, but not limited to: manufacturers, operators, and other inspecting organizations. Referral to applicable regulation is essential with regard to responsibilities of owners and users for use, maintenance, and normal operational inspections. It is especially important that owners and users, regularly and by means of extraordinary disassembly and/or non-destructive testing arrange to effectively examine parts of the equipment which may be reasonably accessible by routine examinations, including such examinations by Atlantic Crane Inspection Services.

Equipment owners and users should assure continuous compliance with all manufacturer's specifications, including, but not limited to: full range accuracy of load indicating devices, machinery, etc. regardless of the extent to which specifications can be evaluated during Atlantic Crane Inspection Services.

Other requirements of applicable Federal and State regulations not specifically considered with the scope of recorded by related Atlantic Crane Inspections Services' reports, remain for the continuing attention and responsibility of equipment owner and users, including, but not limited to: adequate lighting, walkways, ladders, stairways, clearance between moving and fixed structures, electrical motor restart lockouts, fire extinguishers in the vicinity, etc.



**Inspection**  
**Sautter Crane Rental**

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**Lattice Boom Crane Inspection Report**  
**(1910.180 & 1926.1400-1926.1441 as necessary)**

**Completed by: Dylan VanHorn on 04/29/2023**

**Location:** Princeton, NJ

**Serial #:** 11001111

**Unit #:** S229

<b>Manufacturer:</b>	Manitowoc
<b>Model:</b>	10000A-1
<b>Capacity:</b>	100 Tons
<b>Length:</b>	160' Main With 30' Fixed Extension (10 Degree Offset)
<b>Type of Crane:</b>	Crawler Lattice (1910.180 & 1926.1400)
<b>Number of Lifting Hoist:</b>	Main & Auxiliary
<b>Boom Hoist Setup:</b>	Gantry & Standard Mast
<b>Jib:</b>	Fixed Jib

Priorities Found: ● 1 - Medium ● 3 - Low ● 101 - Good

**Location of Equipment**

1. Location of Equipment **Princeton, NJ**

**Customer Sign Off**

2. Customer Sign Off

*IF THERE ARE NO DEFICIENCIES NOTHING NEEDS TO BE DONE.*

*IF THERE ARE ANY HIGH, RED, DEFICIENCIES PLEASE FOLLOW THE BELOW INSTRUCTIONS*

*The deficiencies marked HIGH in RED shall be corrected and this report must be dated, signed and email THIS PAGE ONLY to either jaime@atlanticcrane.com or gina@atlanticcrane.com or fax THIS PAGE ONLY to our office at 215-639-2316 and a certification and sticker will be issued. The above deficiencies denoted with (REC, MEDIUM, ORANGE) are recommended and are not required to be corrected to achieve certification. However, those items should be corrected to improve equipment reliability and safety.*

*The undersigned verifies the listed deficiencies denoted with an (DEF, HIGH, RED) have been corrected.*

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

**Inspection Information**

3. Inspection Number **23042901DV**

4. Inspection Date **04/29/2023**

● 5. Inspection Type **(Ann) Annual**

**Hours**

6. Hours **5375.6 Hours**



**Information & Records**

● 7. Documentation of Annual / Comprehensive Inspection **(SAT) Satisfactory**

● 8. Monthly Inspection **(SAT) Satisfactory**

● 9. Record of Maintenance **(SAT) Satisfactory**

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● 10. Hand Signal Chart	(SAT) Satisfactory
● 11. Safety and Warning Labels	(SAT) Satisfactory
● 12. Operator's Manual	(SAT) Satisfactory
<b>Safety Devices / Operational Aids</b>	
● 13. Boom Angle Indicator	(SAT) Satisfactory
● 14. Drum rotation indicator	(SAT) Satisfactory
● 15. Two-Block System	(SAT) Satisfactory
● 16. Radius Indicator	(SAT) Satisfactory
● 17. Load Moment Indicator	(SAT) Satisfactory
● 18. Crane Level Indicator	(SAT) Satisfactory
● 19. Boom Hoist Limiting Device	(SAT) Satisfactory
● 20. Fire Extinguisher	(SAT) Satisfactory
<b>Load Chart</b>	
● 21. Load Chart	(SAT) Satisfactory
● 22. Per Configuration	(SAT) Satisfactory
● 23. Durable / Legible/ Secured	(SAT) Satisfactory
<b>Crawler Assembly</b>	
● 24. Car body/ Side frames	(SAT) Satisfactory
● 25. Chain, idlers and Sprocket	(SAT) Satisfactory
● 26. Track Pads, and Pins	(SAT) Satisfactory
● 27. Travel Steering, Brakes, and Locking Devices	(SAT) Satisfactory
<b>Operator's Station</b>	
● 28. Windows/Wipers	(SAT) Satisfactory
● 29. Cab Door Restraint	(SAT) Satisfactory
● 30. Steps / Ladders / Handrails	(SAT) Satisfactory
● 31. Horn	(SAT) Satisfactory
● 32. Anti-Skid Stepping Surfaces	(SAT) Satisfactory
● 33. Mirrors	(SAT) Satisfactory
● 34. Decals	(SAT) Satisfactory
● 35. Electrocutation Warning Sign(inside the cab)	(SAT) Satisfactory
● 36. Swing Brake	(SAT) Satisfactory
● 37. Positive Swing lock	(SAT) Satisfactory
● 38. Control Function	(SAT) Satisfactory
● 39. Air Pressure	(SAT) Satisfactory
● 40. Performance Indicators (Pressure)	(SAT) Satisfactory
● 41. Posted Warnings	(SAT) Satisfactory
● 42. Brake and Clutch	(SAT) Satisfactory
● 43. Boom Hoist Ratchet and Pawl	(SAT) Satisfactory
● 44. Accelerator / Throttle	(SAT) Satisfactory
● 45. Foot Brakes, Latches, and Linkage	(SAT) Satisfactory
● 46. Operator Cutoff (Deadman) Switch	(SAT) Satisfactory
<b>Rotating Upper Structure</b>	
● 47. Engine	(SAT) Satisfactory
● 48. Oil & Fluid Levels	(SAT) Satisfactory
● 49. Turntable / Bearing	(SAT) Satisfactory
● 50. Ring and Pinion Gear	(SAT) Satisfactory
● 51. Hydraulic and Pneumatic Pumps	(SAT) Satisfactory

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● 52. Hydraulic Tubes, Fitting, and Hoses	(SAT) Satisfactory	
● 53. Hydraulic Pressure	(SAT) Satisfactory	
● 54. Covers and Guards	(SAT) Satisfactory	
● 55. Electrical Wiring	(SAT) Satisfactory	
● 56. External Lights	(SAT) Satisfactory	
● 57. Swing System / Assembly	(SAT) Satisfactory	
● 58. Torque Converter	(SAT) Satisfactory	
● 59. Slip resistant walking and stepping surfaces	(SAT) Satisfactory	
● 60. Steps, Grab rails, and platforms	(SAT) Satisfactory	
● 61. Access to Cab and Roof	(SAT) Satisfactory	
● 62. Air System	(SAT) Satisfactory	
● 63. Counterweight Mounting	(SAT) Satisfactory	
● 64. Counterweight Warnings Signs	(SAT) Satisfactory	
● 65. Electrocution Warnings Signs	(SAT) Satisfactory	
● 66. Structure	(SAT) Satisfactory	
<b>Hoist System</b>		
● 67. Brakes and Clutch System	(SAT) Satisfactory	
● 68. Wire Rope Reeving	(SAT) Satisfactory	
● 69. Meets 2 rope wrap minimum	(SAT) Satisfactory	
● 70. Motor	(SAT) Satisfactory	
● 71. Drums/Lagging/Flanges	(SAT) Satisfactory	
● 72. Anchor System	(SAT) Satisfactory	
● 73. Drum Spooling	(SAT) Satisfactory	
<b>Boom</b>		
● 74. Gantry and Mast	(SAT) Satisfactory	
● 75. Boom Stops	(SAT) Satisfactory	
● 76. Inner Bail	(SAT) Satisfactory	
● 77. Outer Bail and Equalizer	(SAT) Satisfactory	
● 78. Boom Section Sequence	(SAT) Satisfactory	
● 79. Boom Section Alignment	(SAT) Satisfactory	
● 80. Warning Labels and Decals	(SAT) Satisfactory	
● 81. Sheaves	(SAT) Satisfactory	
● 82. Boom Head Section	(SAT) Satisfactory	
● 83. Lattice Members	(MON) Monitor	P89
■ <i>Minor dings in lacings at the head section and 3rd 40' section on boom. Monitor condition monthly.</i>		
● 84. Cord Members	(SAT) Satisfactory	
● 85. End Connections/Pins	(SAT) Satisfactory	
● 86. Boom Foot Pins and Keepers	(SAT) Satisfactory	
● 87. Hoist Line Dead End	(SAT) Satisfactory	
● 88. Wire Rope Retainers	(SAT) Satisfactory	
<b>Jib</b>		
● 89. Sheaves	(SAT) Satisfactory	
● 90. Wire Rope Retainers	(SAT) Satisfactory	
● 91. Lattice Members	(SAT) Satisfactory	
● 92. Cord Members	(SAT) Satisfactory	
● 93. End Connections and Pins	(SAT) Satisfactory	
● 94. Jib Stops	(SAT) Satisfactory	

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**Wire rope Auxiliary Drum 1**

95. Diameter &amp; Wear

Size

Construction

Number of Parts of Line

**26 mm****Rotation Resistant****1 Part**

● 96. Rope Damage

**(SAT) None Visible at Time of inspection**

● 97. Lubrication

**(SAT) Satisfactory**

● 98. End Connectors

**(MON) Monitor**

P108

Some spacing in second wrap of wire rope on auxiliary drum. Monitor condition monthly.

**Wire rope Boom Hoist Drum**

99. Diameter &amp; Wear

Size:

Construction

**16 mm****6x RRL**

● 100. Rope Damage

**(SAT) None Visible at Time of inspection**

● 101. Lubrication

**(SAT) Satisfactory**

● 102. End Connectors

**(MON) Monitor**

P112

Some spacing in lower wraps of wire rope on boom hoist drum. Monitor condition monthly.

**Pendants & End connections**

103. Diameter &amp; Wear

Size:

Construction

**31mm****6x RRL**

Jib Pendants: 22mm & 6x RRL

● 104. Pendant Damage.

**(SAT) Satisfactory****Main Hoist Load Block/Ball & Hook**

105. Capacity &amp; Weight

Capacity

Weight

**N/A****N/A****Auxiliary Hoist Load Block/Ball & Hook**

● 106. Capacity &amp; Weight

P127

Capacity

Weight

**N/A****N/A**

Information tag for ball missing. Highly recommend replacing.

● 107. Safety Latches

**(SAT) Satisfactory**

● 108. 0° Hook Bend or Twist

**(SAT) Satisfactory**

● 109. 5% Hook Opening or 1/4" Max

**(SAT) Satisfactory**

● 110. 10% Hook Wear Max

**(SAT) Satisfactory**

● 111. Swivel / Bearing

**(SAT) Satisfactory**

● 112. Wedge Socket / End Fitting

**(SAT) Satisfactory**

● 113. Reeving

**(SAT) Satisfactory****Verification and Completion**

114. Inspector Name and Signature

**Dylan VanHorn**

115. Additional Inspection Notes

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P6.1



P89.2



P89.3



P108.4



P112.5



P112.6



P127.7