



Prepared for:

## **Sautter Crane rental**

2900 Black Lake Place Philadelphia, PA 19154

John Hopkins University

on

8/18/2023

Please return the entire report.

**Customer Sign Off**

**-If there are no deficiencies nothing needs to be done**

**-If there are any (HIGH, RED) deficiencies please follow the instructions below**

The deficiencies marked HIGH in RED shall be corrected and this report must be dated, signed and email THIS ENTIRE REPORT to [tony.rossi@tandemlift.com](mailto:tony.rossi@tandemlift.com) or [jon.santimaw@tandemlift.com](mailto:jon.santimaw@tandemlift.com). After the signed document is received, a certification and label will be issued. The 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 performance.

-The undersigned verifies that the deficiencies denoted with (DEF, HIGH, RED) have been corrected.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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 High  Med  Low Section

Inspection - *John Hopkins University*

Lattice Boom Crane: 138512 - S311

0

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**1.0**

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# Overview



## Breakdown by Form

Form Type	 High	 Med	 Low	# Forms
Inspection	0	0	0	1
<b>Overall:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

## Breakdown by Location

Location	 High	 Med	 Low	# Forms
John Hopkins University	0	0	0	1
<b>Overall:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

## Breakdown by Asset

Asset Type	 High	 Med	 Low	# Assets
Lattice Boom Crane	0	0	0	1
<b>Overall:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

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Tandem Lift LLC  
 321 Enlow Place  
 Pennsville, NJ 08070  
 833-TANDEM1

## Inspection

**Sautter Crane rental**  
 2900 Black Lake Place  
 Philadelphia, PA 19154

FolderID: 081823S311  
 FormID: 17646327



### Lattice Boom Crane

**Location:** John Hopkins University  
 234 Wynman Park Drive  
 Baltimore, MD 21211

**Serial #:** 138512

**TagID:** S311

**Manufacturer:** Liebherr

**Model:** LR1300.1 SX

**Capacity:** 330 Tons

**Length/Lift:** 203'

**Hook Type:** Overhaul Ball & Hook

**Hook Type 2:** Overhaul Ball & Hook

Priorities Found: ● 123 - Good

### Miles and Hours

1. Miles	N/A Miles
2. Hours	3,002 Hours

### Historical Records

● 3. Monthly Inspection	(SAT) Satisfactory
● 4. Documentation of Annual / Comprehensive Inspection	(SAT) Satisfactory
● 5. Equipment Modification(s) or additions	(NA) Not Applicable
● 6. Record of Maintenance	(NA) Not Applicable
● 7. Record of Load Test	(NA) Not Applicable

### General

● 8. Sheet Metal	(SAT) Satisfactory
● 9. Covers and Guards	(SAT) Satisfactory
● 10. External Lights	(SAT) Satisfactory
● 11. Housekeeping	(SAT) Satisfactory
● 12. Safety and Warning Labels	(SAT) Satisfactory
● 13. Hand Signal Chart	(SAT) Satisfactory P13

### Driver's Cab and Station

14. Service Brake
15. Emergency Brake
16. Parking Brake
17. External Lights (Headlights, Taillights, Brake Lights)
18. Audible Warning Device
19. Audible Reverse Signal Alarm
20. Windows / Mirrors
21. Windshield Wipers
22. Windshield Defroster

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23. Housekeeping	
24. Seatbelts	
25. Tires	
26. Operating Controls and Drive Mechanisms	
27. Steering	
28. Seat	
29. Fire Extinguisher	
<b>Lower Carrier Power Plant</b>	
30. Engine Performance	
31. Exhaust System	
32. Belts	
33. Rotating and Reciprocating Parts	
<b>Carrier</b>	
34. Transmission	
35. Drive Line	
36. Tires	
37. Main Frame Members	
38. Hydraulic Hoses, Fittings, Tubes	
39. Hydraulic Fluid level	
40. Slip Resistant Walking surface	
41. Front Bumper Counterweight	
<b>Outriggers</b>	
42. Boxes & Beams	
43. Hydraulic Cylinders	
44. Pads / Floats	
45. Hoses / Tubing / Fittings	
46. Holding Valves	
47. Caution / Warning Signs	
48. Pins and Locking devices	
<b>Crawler Assembly</b>	
● 49. Car body/ Side frames	(SAT) Satisfactory
● 50. Chain, idlers and Sprocket	(SAT) Satisfactory
● 51. Track Pads, and Pins	(SAT) Satisfactory
● 52. Travel Steering, Brakes, and Locking Devices	(SAT) Satisfactory
● 53. Steering Clutches	(SAT) Satisfactory
<b>Operator's Station</b>	
● 54. Steps / Ladders / Handrails	(SAT) Satisfactory
● 55. Anti-Skid Stepping Surfaces	(SAT) Satisfactory
● 56. Windows	(SAT) Satisfactory
● 57. Windshield Wipers	(SAT) Satisfactory
● 58. Cab Door Restraint	(SAT) Satisfactory
● 59. Fire Extinguisher	(SAT) Satisfactory
● 60. Mirrors	(SAT) Satisfactory
● 61. Seat	(SAT) Satisfactory
● 62. Seatbelts	(SAT) Satisfactory
● 63. Operator's Manual	(SAT) Satisfactory
● 64. Decals	(SAT) Satisfactory

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●	65. Electrocutation Warning Sign(inside the cab)	(SAT) Satisfactory	P65
●	66. Hand Signal Charts	(SAT) Satisfactory	
●	67. Swing Brake	(SAT) Satisfactory	
●	68. Positive Swing lock	(SAT) Satisfactory	
●	69. Control Function	(SAT) Satisfactory	
●	70. Air Pressure	(SAT) Satisfactory	
●	71. Performance Indicators (Pressure)	(SAT) Satisfactory	
●	72. Posted Warnings	(SAT) Satisfactory	
●	73. Brake and Clutch	(SAT) Satisfactory	
●	74. Accelerator / Throttle	(SAT) Satisfactory	
●	75. Foot Brakes, Latches, and Linkage	(NA) Not Applicable	
<b>Load Chart</b>			
●	76. Ground Level, Remotely Controlled	(SAT) Satisfactory	
●	77. Per Configuration	(SAT) Satisfactory	
●	78. Visible from Fixed Operator's Station	(SAT) Satisfactory	
●	79. Durable / Legible/ Secured	(SAT) Satisfactory	
<b>Safety Devices / Operational Aids</b>			
●	80. Horn	(SAT) Satisfactory	
●	81. Boom Angle Indicator	(SAT) Satisfactory	
●	82. Main Drum rotation indicator	(SAT) Satisfactory	
●	83. Auxiliary Drum rotation indicator	(SAT) Satisfactory	
●	84. Radius Indicator	(SAT) Satisfactory	
●	85. Crane Level Indicator	(SAT) Satisfactory	
●	86. Two-Block System	(SAT) Satisfactory	
●	87. Boom Hoist Limiting Device	(SAT) Satisfactory	
●	88. Boom Hoist Ratchet and Pawl	(SAT) Satisfactory	
●	89. Outrigger / Stabilizer Position Sensor	(NA) Not Applicable	
●	90. Luffing Jib Angle Indicator	(NA) Not Applicable	
<b>Upper Power Plant</b>			
●	91. Performance	(SAT) Satisfactory	
●	92. Exhaust System/Guards & Insulators	(SAT) Satisfactory	
●	93. Hoses	(SAT) Satisfactory	
●	94. Reciprocating and rotating parts	(SAT) Satisfactory	
<b>Rotating Upper Structure</b>			
●	95. Turntable / Bearing	(SAT) Satisfactory	
●	96. Turntable / Rollers	(SAT) Satisfactory	
●	97. Ring and Pinion Gear	(SAT) Satisfactory	
●	98. Ring and Pinion Gear.	(SAT) Satisfactory	
●	99. Hydraulic and Pneumatic Pumps	(SAT) Satisfactory	
●	100. Hydraulic Tubes, Fitting, and Hoses	(SAT) Satisfactory	
●	101. Hydraulic Pressure	(SAT) Satisfactory	
●	102. Electrical Wiring	(SAT) Satisfactory	
●	103. Main Hoist - Brakes and Clutch System	(SAT) Satisfactory	
●	104. Main Hoist - Wire Rope Reeving	(SAT) Satisfactory	
●	105. Main Hoist - Meets 2 rope wrap minimum	(SAT) Satisfactory	
●	106. Auxiliary Hoist - Brakes and Clutch System	(SAT) Satisfactory	
●	107. Auxiliary Hoist - Wire Rope Reeving	(SAT) Satisfactory	

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● 108. Auxiliary Hoist - Meets 2 rope wrap minimum	(NA) Not Applicable
● 109. Boom Hoist - Brakes and Clutch System	(SAT) Satisfactory
● 110. Boom Hoist - Wire Rope Reeving	(SAT) Satisfactory
● 111. Boom Hoist - Meets 2 rope wrap minimum	(SAT) Satisfactory
● 112. Swing System / Assembly	(SAT) Satisfactory
● 113. Hydraulic and Pneumatic Pumps and Motors	(SAT) Satisfactory
● 114. Drums and Flanges	(SAT) Satisfactory
● 115. Clutch and Brake Protection	(SAT) Satisfactory
● 116. Torque Converter	(SAT) Satisfactory
● 117. Slip resistant walking and stepping surfaces	(SAT) Satisfactory
● 118. Steps, Grab rails, and platforms	(SAT) Satisfactory
● 119. Access to Cab and Roof	(SAT) Satisfactory
● 120. Air System	(SAT) Satisfactory
● 121. Counterweight Mounting	(SAT) Satisfactory
● 122. Counterweight Warnings Signs	(SAT) Satisfactory
● 123. Electrocutation Warnings Signs	(SAT) Satisfactory
<b>Boom Support System</b>	
● 124. Gantry and Mast	(SAT) Satisfactory
● 125. Boom Stops	(SAT) Satisfactory
● 126. Inner Bail	(SAT) Satisfactory
● 127. Outer Bail and Equalizer	(SAT) Satisfactory
● 128. Sheaves	(SAT) Satisfactory
● 129. Boom Hoist Wire Rope Reeving	(SAT) Satisfactory
<b>Boom</b>	
● 130. Boom Section Identification	(SAT) Satisfactory
● 131. Boom Section Sequence	(SAT) Satisfactory
● 132. Boom Section Alignment	(SAT) Satisfactory
● 133. Warning Labels and Decals	(SAT) Satisfactory
● 134. Spreader Bar	(SAT) Satisfactory
● 135. Sheaves	(SAT) Satisfactory
● 136. Boom Head Section	(SAT) Satisfactory
● 137. Auxiliary Boom Head	(SAT) Satisfactory
● 138. Lattice Members	(SAT) Satisfactory
● 139. Cord Members	(SAT) Satisfactory
● 140. End Connections/Pins	(SAT) Satisfactory
● 141. Boom Foot Pins and Keepers	(SAT) Satisfactory
● 142. Hoist Line Dead End	(SAT) Satisfactory
● 143. Wire Rope Retainers	(SAT) Satisfactory
<b>Jib</b>	
144. Sheaves	
145. Wire Rope Retainers	
146. Lattice Members	
147. Cord Members	
148. End Connections and Pins	
149. Jib Stops	
<b>Luffing Boom Attachment</b>	
150. Luffing Jib Section Identification	

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151. Luffing Jib Section Sequence
152. Luffing Jib Tip Section
153. Luffing jib Warning Decals
154. Luffing Jib Point Sheaves
155. Luffing Hoist Line Dead End
156. Wire Rope Retainers
157. Luffing Jib Foot Keepers and Pins
158. Lattice Members
159. Cord Members
160. End Connections and Pins
161. Luffing Jib Angle Indicator
162. Guard Rails
163. Luffing Jib Stops
164. Walking Surfaces
165. Luffing Jib Hoist Reeving
<b>Mast and Maxer / Super lift packages</b>
166. Mast Boom Section Identification
167. Mast Boom Section Sequence
168. Mast Tip Section
169. Mast Warning Decals
170. Mast Point Sheaves
171. Mast Hoist Line Dead End
172. Wire Rope Retainers .
173. Mast Foot Keepers and Pins
174. Lattice Members.
175. Cord Members.
176. End Connections and Pins.
177. Guard Rails.
178. Walking Surfaces.
179. Mast Hoist Reeving.
<b>Maxer/ Ringer / SuperLift Attachments</b>
180. Mast Pendants Connection Components
181. Counterweight Mounting.
182. Counterweight Warnings Signs.
<b>Wire Rope Main Hoist drum</b>
● 183. Rope Damage (SAT) Satisfactory
184. Diameter & Wear
Size: Diameter & Wear
<b>28mm 28.7mm</b>
● 185. Broken Wires (SAT) Satisfactory
● 186. Lubrication (SAT) Satisfactory
● 187. End Connectors (SAT) Satisfactory
● 188. End Connectors, Pins, Keepers (SAT) Satisfactory
<b>Wire rope Auxiliary Drum 1</b>
● 189. Rope Damage (SAT) Satisfactory

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190. Diameter & Wear		
Size	Diameter / wear	
<b>28mm</b>	<b>28.8mm</b>	
● 191. Broken Wires	<b>(SAT) Satisfactory</b>	
● 192. Lubrication	<b>(SAT) Satisfactory</b>	
● 193. End Connectors	<b>(SAT) Satisfactory</b>	
<b>Wire rope Auxiliary Drum 2</b>		
194. Rope Damage		
195. Diameter & Wear		
Size	Diameter & Wear	
196. Broken Wires		
197. Lubrication		
198. End Connectors		
<b>Wire rope Auxiliary drum 3</b>		
199. Rope Damage		
200. Measured Wear.		
201. Diameter & Wear		
Size:	Diameter & Wear	
202. Broken Wires		
203. Lubrication		
204. End Connectors		
<b>Wire rope Boom Hoist Drum</b>		
● 205. Rope Damage	<b>(SAT) Satisfactory</b>	
206. Diameter & Wear		
Size:	Diameter & Wear:	
<b>24mm</b>	<b>24.4mm</b>	
● 207. Broken Wires	<b>(SAT) Satisfactory</b>	
● 208. Lubrication	<b>(SAT) Satisfactory</b>	
● 209. End Connectors	<b>(SAT) Satisfactory</b>	
<b>Pendants &amp; End connections</b>		
● 210. Rope Damage.	<b>(SAT) Satisfactory</b>	
211. Diameter & Wear		
Size:	Diameter & Wear	
<b>0</b>	<b>0</b>	
■ <i>Metak strap pendants</i>		
<b>Load Block &amp; Hook</b>		
212. Capacity Marking		
213. Weight Marking		
214. Sheave(s)		
215. Safety Latch(es)		
216. 0° Hook Bend or Twist		
217. 5% Hook Opening or 1/4" Max		
218. 10% Hook Wear Max		
219. Swivel		
220. Bearing		

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221. Wedge Socket / End Fitting	
222. Reeving	
<b>Overhaul Ball &amp; Hook</b> <span style="float: right;">📷 P223</span>	
● 223. Capacity Marking	(SAT) Satisfactory
● 224. Weight Marking	(SAT) Satisfactory
● 225. Safety Latches	(SAT) Satisfactory
● 226. 0° Hook Bend or Twist	(SAT) Satisfactory
● 227. 5% Hook Opening or 1/4" Max	(SAT) Satisfactory
● 228. 10% Hook Wear Max	(SAT) Satisfactory
● 229. Swivel / Bearing	(SAT) Satisfactory
● 230. Wedge Socket / End Fitting	(SAT) Satisfactory
<b>No-Load Operational Test</b>	
● 231. No-Load Operational Test	(SAT) Satisfactory
<b>Verification and Completion</b>	
232. Inspector Name and Signature	Jonathan Santimaw
	
233. Date of Inspection	08/18/2023
234. Customer Name and Signature	
● 235. Certificate Issued	(Y) Yes



P13.1



P65.2



P223.3