



## Inspection Report: TELESCOPING BOOM CRANE-ANNUAL

OSHA/ANSI/ASME Standards: OSHA 1926.1400, 1910.180, 1926.601 ASME B30.5, B30.10

Date Inspected: 07/09/2018

Operation Hours: 1,711. upper eng

Operation Miles: 18,923.

Inspector: Steve Marquis

Inspection ID: 88.577.1531320376

### Equipment Identification and Specifications

<b>Name and Address of Owner</b>	SHERMAN CRANE; 140 West Street , Wilmington MA 01887 USA		
<b>Serial Number</b>	066-511	<b>Unit Number:</b>	181
<b>Year</b>	2014	<b>Manufacturer</b>	LIEBHERR
<b>Model</b>	LTM-1130-5.1		
<b>Max Capacity</b>	305,000 lbs		
<b>Main Hoist Rope Diameter</b>	21 mm		
<b>Main Hoist Rope Type</b>	rotation resistant		

Did the unit pass the inspection?

Yes

No

Do you want to attach an annual certification to this unit?

Yes

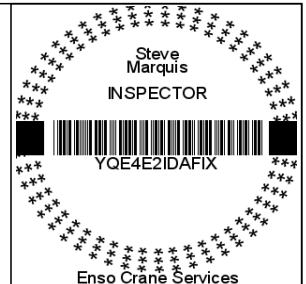
No

Unit Location at Time of Inspection: Wilmington, MA

GPS Tag:

Inspector

Steve Marquis





## Inspection Details

Type of Inspection: TELESCOPING BOOM CRANE-ANNUAL		Inspection ID: 88.577.1531320376	
S=Satisfactory R=Recommendation D=Deficiency N=Not Applicable			
Item	Condition	Item	Condition
<b>TELESCOPING BOOM CRANE-ANNUAL</b>		32. Steering	S
<b>CRANE DATA</b>		33. Fire Extinguisher	S
1. Inspection Records Daily / Monthly / Annual	S	34. Gauges / Light Display	S
2. Maintenance Records	S	35. Access / Grab Rails / Steps	S
3. Load Test Records	S	36. Mirrors	S
4. Wire Rope Inspection Records	S	37. Power Take-Off	S
5. Ground Conditions	S	38. Air Pressure	S
<b>GENERAL CONDITION</b>		39. Horn	S
6. Sheet Metal	S	40. Accelerator	S
7. Paint Condition / Corrosion Control	S	41. Operators Manual	S
8. Guards / Covers	S	<b>CARRIER / DRIVETRAIN COMPONENTS</b>	
9. External Lights	S	42. Engine Mounts / Bolts	S
10. Housekeeping	S	43. Transmission Mounts / Bolts	S
11. Warning / Safety Labels	S	44. Drive Line	S
12. OSHA Approved Hand Signal Chart (outside)	S	45. U-Joints	S
<b>POWER PLANT (LOWER)</b>		46. Main Frame Members	S
13. Engine / Pumps Performance	S	47. Axle Mounts	S
14. Exhaust System / Guards & Insulators	S	48. Hydraulic Hoses	S
15. Belts / Pulleys	S	49. Hydraulic Tubing	S
16. Hoses	S	50. Hydraulic Fittings	S
17. Compressor Performance	S	51. Hydraulic Fluid Level	S
18. Guards / Covers for Rotating Parts	S	52. Axle Lockout System	S
19. Engine Oil Level	S	53. Differential Breathers	S
20. Transmission Oil Level	S	54. Tires / Wheels Condition	S
21. Coolant Level	S	55. Tire Inflation Pressure	S
22. Leaks	S	<b>OUTRIGGERS</b>	
<b>DRIVERS CAB / STATION (LOWER)</b>		56. Boxes	S
23. Brakes Service / Parking	S	57. Beams	S
24. Headlights / Trail Lights	S	58. Cylinders / Extensions & Stabilizers	S
25. Brake Lights / Turn Signals	S	59. Floats / Pads	S
26. Back-up Alarm / Lights	S	60. Hydraulic Hoses	S
27. Audible Warning (low air)	S	61. Hydraulic Tubing	S
28. Glass	S	62. Hydraulic Fittings	S
29. Windshield Wipers	S	63. Pilot Operated Check Valves	S
30. Heater / Defroster	S	64. Positive Position Locks	S
31. Seat Belts	S	65. Decals / Warning Labels	S



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Item	Condition	Item	Condition
66. Beam Marking	S	98. Low Boom Warning	S
<b>RATED CAPACITY CHART</b>		<b>POWER PLANT (UPPER)</b>	
67. Correct Capacity Chart for Crane	S	99. Engine / Pumps Performance	S
68. Legible / Durable	S	100. Exhaust System / Guards & Insulators	S
69. Secured / Accessible to Operator	S	101. Belts / Pulleys	S
<b>OPERATIONAL AIDS</b>		102. Hoses	S
70. Boom Angle Indicator	S	103. Guards / Covers for Rotating Parts	S
71. Boom Length Indicator	S	104. Engine Oil Level	S
72. Anti Two Block / Device / Warning	S	105. Transmission Oil Level	S
73. LMI Make & Model		106. Coolant Level	S
LICCON II		107. Leaks	S
74. Load Moment Indicator	S	<b>ROTATING SUPERSTRUCTURE</b>	
75. Load Radius Indicator	S	108. Turntable / All Structural Welds	S
76. Load Weight Indicator	S	109. Turntable Mounting Bolts	S
77. Main Hoist / Winch Rotation Indicator	S	110. Directional Control Valves	S
<b>OPERATORS CAB / STATION</b>		111. Hydraulic Hoses	S
78. Glass / Safety Type	S	112. Hydraulic Tubing	S
79. Windshield Wipers / Washers	S	113. Hydraulic Fittings	S
80. Cab Access / Steps / Ladders	S	114. Hydraulic Pressure / Relief Valves	S
81. Hand holds / Guardrails	S	115. Electrical Wiring	S
82. Anti Slip Walking Surfaces	S	116. Swing / Slew Gearbox	S
83. Door Latch / Lock / Restraint	S	117. Slewing / Rotation Bearing	S
84. Fire Extinguisher 10BC	S	118. Counterweight / Welds / Attachment Area	S
85. Operators Manual	S	119. Safety / Warning Labels	S
86. All Safety Decals	S	120. Main Hoist mounting Bolts	S
87. Electrocution Warning	S	121. Auxiliary Hoist Mounting Bolts	S
88. Level Indicator	S	122. Wire Rope Lay on Main Hoist	S
89. Horn	S	<b>MAIN BOOM</b>	
90. Gauges / Light Display	S	123. Boom Length	
91. Crane Function Controls	S	41 - 196 feet	
92. Crane Function Controls Identified	S	124. Lift Cylinder(s)	S
93. Swing Brake / Lock	S	125. Telescoping Cylinder(s)	S
94. Travel Brakes	S	126. Holding Device / Holding Valves	S
95. Travel Mechanism	S	127. Hydraulic Hoses	S
96. Travel Controls	S	128. Hydraulic Tubing	S
97. Park Brake	S	129. Hydraulic Fittings	S



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Item	Condition	Item	Condition
130. Boom Wear Pads	S	159. Rated Capacity	
131. Boom Section Alignment	S	30 mt	
132. Equal Extension / Boom Sequence	S	160. Block Weight	
133. Condition of Sheaves	S	450 kg	
134. Hoist Line Retainers / Pins	S	161. Hook Tram Measurement	
135. Condition of Boom Structure	S	n/a	
136. Condition of Boom Head	S	<b>ITEM</b>	
<b>LATTICE BOOM EXTENSION</b>		162. Capacity Marking	S
137. Condition of Main Chords and Lacings	S	163. Weight Marking	S
138. Condition of Mounting Pins / Keepers	S	164. Sheave(s)	S
139. End Connection / Attachment Points	S	165. Safety Latch	S
140. Condition of Sheaves	S	166. 0 Degree Hook Bend or Twist	S
141. Stowage Brackets Front / Rear	S	167. 5% Hook Throat Opening or 1/4 inch	S
142. Boom Extension Alignment	S	168. 10% Hook Wear	S
143. Wire Rope Retainers / Pins	S	169. Bearing	S
144. Condition of Welds	S	170. Pins and Retainers	S
145. Positive Stops	S	<b>OTHER NOTES</b>	
146. Length of Jib		171.	
35 ft offset		stored in yard	
<b>SOLID DESIGN BOOM EXTENSION</b>		<b>OVERHAUL BALL AND HOOK</b>	
		<b>INFORMATION</b>	
147. Condition of Boom Extension	S	172. Manufacturer	
148. Condition of Mounting Pins / Keepers	S	LIEBHERR	
149. End Connection / Attachment Points	S	173. Serial Number	
150. Condition of Sheaves	S	914231008-E	
151. Stowage Brackets Front / Rear	S	174. Rated Capacity	
152. Boom Extension Alignment	S	10 mt	
153. Wire Rope Retainers / Pins	S	175. Ball Weight	
154. Condition of Welds	S	250 kg	
155. Positive Stops	S	176. Hook Tram Measurement	
156. Length of Jib		n/a	
27 ft SAW			
<b>LOAD BLOCK AND HOOK</b>		<b>ITEM</b>	
<b>INFORMATION</b>		177. Capacity Marking	S
157. Manufacturer		178. Weight Marking	S
LIEBHERR		179. Safety Latch	S
158. Serial Number		180. 0 Degree Hook Bend or Twist	S
916124908-E			



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Item	Condition	Item	Condition
181. 5% Hook Throat Opening or 1/4	S		
182. 10% Hook Wear	S		
183. Bearing	S		
184. Wedge Socket / End Fitting	S		
<b>OTHER NOTES</b>			
185.			
<b>MAIN HOIST WIRE ROPE</b>			
<b>INFORMATION</b>			
186. Damage	S		
187. Wear	S		
188. Broken Wires	S		
189. Lubrication	S		



Image 1





Image 2

603 781 7795

**CERTIFICATION OF INSPECTION**

**ENSO**  
CRANE SERVICES

DATE 7.9.18 CAPACITY see chart

MODEL LTM-1130-5.1

SERIAL NO 066-511

INSPECTION STANDARD 1926.1400

**WWW.ENSOCRANE.COM**

CRANE INSPECTIONS, ENGINEERING, & SAFETY TRAINING



## Notes

**Inspection ID:88.577.1531320376**

Explanation

70: OPERATIONAL AIDS - Boom Angle Indicator: accuracy confirmed with a digital level

74: OPERATIONAL AIDS - Load Moment Indicator: LMI functioned as designed, safely disabled the crane at the correct radius with a known weight

75: OPERATIONAL AIDS - Load Radius Indicator: accuracy confirmed with a tape measure

76: OPERATIONAL AIDS - Load Weight Indicator: accuracy acceptable with a known weight





# Annual Certification

This is to certify that the unit described below received an  
**TELESCOPING BOOM CRANE-ANNUAL**  
in accordance with

OSHA 1926.1400, 1910.180,1926.601 ASME B30.5,B30.1

Equipment Owner: SHERMAN CRANE

Model No.: LTM-1130-5.1

Equipment Make: LIEBHERR

Serial No.: 066-511

Equipment Type: TELESCOPING BOOM CRANE

Unit Id: 181

Inspection ID: : 88.577.1531320376

Inspected on this: 9th (Monday) day of July, 2018

by: Enso Crane Services

P.O. Box 671 03821 Dover( NH )

603-781-7795

<http://www.ensocrane.com>



**This Certificate Expires One Year From The Date of Inspection Above**