

Quality Inspection and Repair LLC

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OSHA/ANSI Annual Periodic INSPECTION – CHECKLIST		Inspection No: 3594	Date: 11-05-2018
Type of Inspection: Annual Mobile Crane Safety Inspection		Expiration Date: 11-30-2019	
Make: LIEBHERR	Model: LTM 1400/1	Serial Number: 072 010	
Rated Capacity: 500 Ton	Unit: # 90		
Type: ALL TERRAIN	Boom Length: 196 Ft	JIB LENGTH Lifting jib 276 ft / Fixed jib 184 ft	
Owner: ROCKY MOUNTAIN CRANE SERVICE		Contact Person: KEN SUSTRICH	
135 CRANE LANE		Location: GENOA YARD	
SALIDA, C.O. 81201		Phone No: 719-539-4966	

- ❖ Before inspecting crane, lock out / tag out power source.
- ❖ Consult operator/service manual, service bulletins, etc., for additional inspection items.
- ❖ Before inspecting and operating crane, crane must be set up away from power lines and leveled with outriggers fully extended.
- ❖ OSHA and ANSI allow only qualified and competent persons to inspect cranes. To qualify, inspectors must have been through training, have extensive knowledge and demonstrated ability. **References:** OSHA 1926.550, 1910.179, 1910.180, 1910.181, ASME B30.2, B30.5, B30.10, B30.11, B30.16, B30.17 and B30.23.

Status: S = Satisfactory D = Deficiency R = Recommendation N/A = Not Applicable

Item	Status
Documents/Records	
1. Inspection Records	S
2. Maintenance Records	S
3. Repair/Modification Records	S
4.	
General	
5. Guards/ Covers	S
6. Housekeeping	S
7. Paint/Corrosion Control	S
8. Sheet Metal	S
9.	
Drivers Cab & Station	
10. Access Grasp Rails/Steps	S
11. Glass	S
12. Windshield Wipers	S
13. Door(s)/Door(s) Restraints	S
14. Fire Extinguisher	S
15. Mirrors	S
16. Seat(s) Restraint(s)	S
17. Seat Belt(s)	S
18. Instruments/Gauges	S
19. Control Identification	S
20. Electrical Switch/Function	S
21. Horn	S
22. Lights	S
23. Steering	S
24. Engine Clutch	S
25. Power take-off	S
26. Warning Device	S
27. Accelerator/Throttle	S
28. Brake	S
29. Parking Brake	S
30.	
Truck/Chassis/Carrier	
31. Performance	S
32. Exhaust System/Guards & Insulators	S

Item	Status
Truck/Chassis/Carrier (Continued)	
33. Belts/Hoses	S
34. Guards/Covers	S
35. Transmission	S
36. Drive Lines	S
37. Main Frame Members	S
38. Tires/Wheels	S
39. Tire Air Pressure	S
40. Hydraulic Hoses/Tubing/Fittings	S
41. Hydraulic Fluid Level	S
42. Axle Lockout	S
43. Anti-Skid Surface	S
44. Back-up Alarm	S
45. Front Bumper Counterweight	N/A
46. Suspension	S
47.	
Operator's Cab & Station	
48. Operators Manual	S
49. Grab Rails/Steps/Platforms	S
50. Glass	S
51. Windshield Wiper(s)	S
52. Anti-Skid Surface	S
53. Door(s)/Door(s) Restraint	S
54. Mirrors	S
55. Seat Restraint	S
56. Seat Belts	S
57. Fire Extinguisher	S
58. Operating Instructions/Decals	S
59. Electrocution Warning Sign (Inside)	R
60. Hand Signal Chart	S
61. Swing Brake	S
62. Positive Swing Lock	S
63. Controls Forces/Movements	S
64. Foot Brakes – Latches/Linkage	S
65. Power Controlled Lowering	S
66. Engine Clutch	N/A

Owner:	Unit:	Date:
ROCKY MOUNTAIN CRANE SERVICE	# 90	11-03-2016

Status: S = Satisfactory D = Deficiency R = Recommendation N/A = Not Applicable

Item	Status
Operator's Cab & Station (Continued)	
67. Accelerator/Throttle Control	S
68. Air Pressure	S
69. Hydraulic Leaks	S
70. Horn/Warning Device	S
71.	
Load Charts	
72. Per Configuration	S
73. Durable	S
74. Legible	S
75. Visible From Operator Station	S
76. Secured	S
77.	
Safety Devices/Operational Aids	
78. Boom Angle Indication	S
79 Boom Length Indication	S
80. Main Drum Rotation Indicator	S
81. Aux. Drum Rotation Indicator	S
82. Load Moment Indicator	S
83. Load Weight Indicator	S
84. Radius Indicator	S
85. Crane Level Indicator	S
86. Anti-Two Block Device	S
87. Two Block Warning Device	S
88. Overload Protection	S
89. Boom Hoist Ratchet and Pawl	S
90.	
Outriggers	
91. Boxes	S
92. Beams	S
93. Cylinders	S
94. Floats/Pads	S
95. Hydraulic Hoses/Fitting/Tubes	S
96. Holding Valves	S
97. Position Locks	S
98. Caution/Warning Signs	S
99.	
Power Plant (Upper)	
100. Performance	S
101. Exhaust System	S
102. Belts/Hoses	S
103. Guards/Covers	S
104.	
Rotating Upper Structure	
105. Turntable/Bearing	S
106. Turntable-Rollers/Roller Path	S
107. Mounting/Frame	S
108. Ring Gear/Pinion Gear	S
109. Swing Gear Box	S
110. Swing System/Assembly	S
111. Hydraulic Pump(s)	S
112. Hydraulic Hoses/Tubing/Fittings	S
113. Hydraulic Pressure	S
114. Main Hoist – Motor/Valves/Lines	S
115. Main Hoist – Clutch/Brakes	S
116. Main Hoist – Wrappings on Drum	S
117. Main Hoist – Minimum (2) Rope Wraps	S

Item	Status
Rotating Upper Structure (Continued)	
118. Aux Hoist – Motor/Valves/Lines	S
119. Aux Hoist – Clutch/Brakes	S
120. Aux Hoist – Wrapping on Drum	S
121. Aux Hoist – Minimum (2) Rope Wraps	S
122. Boom Hoist – Motor/Valves/Lines	S
123. Boom Hoist – Clutches/Brakes	S
124. Boom Hoist – Wrapping on Drum	S
125. Boom Hoist – Minimum (2) Rope Wraps	S
126. Boom Hoist – Gears/Shafts/Etc.	S
127. Hydraulic Motors/Valves/Lines/etc.	S
128. Drums/Flanges	S
129. Clutch/Brake Protection	S
130. Torque Converter	S
131. Air System – Compressor/Line/etc.	S
132. Counterweight & Mounting	S
133. Counterweight Warning Sign	S
134. Anti-Skid Surface	S
135. Electrocution Warning Sign (Outside)	S
136. Access to Cab and Roof	S
137. Steps/Hand Holds/Platforms	S
138.	
Main Boom	
139. Lift Cylinder(s)	N/A
140. Telescoping Cylinder(s)	S
141. Hydraulic Hoses/Tubing/Fittings	S
142. Holding Device	S
143. Boom Sections Alignment	S
144. Wear Pads	S
145. Equal Extension	S
146. Boom Section Sequence	S
147. Boom Section identification	S
148. Structure	S
149. Warning Decals	S
150. Sheaves	S
151. Boom Head Section	S
152. Auxiliary Boom Head	S
153. Boom Foot/Foot Pins/Keepers	S
154. Boom Hinge Pins	S
155. Lattice Members	S
156. Cord Members	S
157. End Connections/Pins	S
158. Spreader Bar	S
159. Hoist Line Dead End	S
160. Wire Rope Retainer(s)	S
161. Lifting Boom Sections	S
Boom Support System	
162. Gantry/Mast	S
163. Boom Stops	S
164. Inner Bail	S
165. Outer Bail/Equalizer	S
166. Sheaves	S
167. Boom Hoist Reeving	S
168.	
MANUAL Section	
169. Alignment	N/A
170. Locking Device	N/A

Owner:	Unit:	Date:
ROCKY MOUNTAIN CRANE SERVICE	# 90	11-03-2016

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Item	Status
Manual Section (Continued)	
171. Structure	N/A
172.	
Jib	
173. Positive Stops	S
174. Sheave(s)	S
175. Wire Rope Retainer(s)	S
176. Structure	S
177. Lattice Members	S
178. Cord Members	S
179. End Connections/Pins	S
180. Storage Device	N/A
181. Boom Extension Alignment	S
182. LUFING JIB ASSEMBLY	S
Main Load Block & Hook	
Manufacturer: LIEBHERR 9 Sheave Block	
Rated Capacity: 221 TON	
Block Weight: 7268 LBS	
Hook Tram Measure: Sister Hook	
Item	Status
183. Capacity Marking	S
184. Weight Marking	S
185. Sheaves	S
186. Safety Latches	S
187. 10° Hook Twist	S
188. 15% Hook Throat Opening	S

Item	Status
Main Load Block & Hook (Continued)	
189. 10% Hook Wear	S
190. Swivel	S
191. Bearing	S
192. Wedge Socket/End Fitting	S
193. Reeving	S
194. NDT-Results:	N/A
195. OTHER BLOCKS on Def/Rec	S
Overhaul Ball & Hook	
Manufacturer: LIEBHERR	
Rated Capacity: 16 ton	
Block Weight: 2400 lbs	
Hook Tram Measure: 4.625 in	
Item	Status
196. Capacity Marking	S
197. Weight Marking	S
198. Safety Latches	S
199. 10° Hook Twist	S
200. 15% Hook Throat Opening	S
201. 10% Hook Wear	S
202. Swivel	S
203. Bearing	S
204. Wedge Socket/End Fitting	S
205. NDT-Results:	N/A
206.	

No-Load Operational Test		
Item	Status	Caution: Operation of cranes by Inspectors shall be limited to those crane functions necessary to accomplish the inspection. Inspectors must have met all operator trainee qualification requirements as outlined in ANSI/ASME B30.5, i.e., passed physical and written examinations.
207. No-Load Operational Test	S	

Wire Rope								
	Rope Application	Size	Construction	Measured Wear	Rope Damage	Lubrication	End Connections	Status
208.	Main Hoist Drum	25 MM	MFG Lang Lay	25.29	S	S	S	S
209.	Aux. Hoist Drum	N/A						
210.	Boom Hoist Drum	N/A						
211.	Boom Pendants	LINKS	BOOM TENSION RODS	N/A	N/A	N/A	S	S
213.	3 rd Hoist Drum							
214.	Lufing Drum	25 mm	MFG Lang Lay	25.35	S	NEEDED	S	LUBE

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Deficiency / Recommendation Report # 3594

Date: 11-06-2018	Owner: ROCKY MOUNTAIN CRANE SERVICE	Unit: # 90 500 TON
Make: LIEBHERR	Model: LTM 1400/1	Serial No. 072 010

The following corrective action(s) (repairs, adjustments, replacement parts, etc.) are to be performed by a qualified person in accordance with all manufacturer's instructions, specifications, and requirements. OSHA requires that, "any deficiency (D) shall be repaired or defective parts replaced before continued use." Recommendation(s) (R) should be considered for correction action. The advisability of a particular recommendation depends on the facts in each situation. Any correction action(s) is to be performed by a qualified person in accordance with all manufacturer's recommendations, specifications, and requirements. **References:** OSHA 1926.550, 1910.179, 1910.180, 1910.181, ASME B30.2, B30.5, B30.10, B30.11, B30.16, B30.17 and B30.23.

D=Deficiency R=Recommendation

LUBED/R	ITEM #	EXPLANATION	DATE CORRECTED
		OSHA 1926.550(a)(6) A thorough, annual inspection of the hoisting machinery shall be made by a competent person, or by a government or private agency recognized by the U.S. Department of Labor. The employer shall maintain a record of the dates and results of inspections for each hoisting machine and piece of equipment.	
	Note	Lufting Hoist wire rope need lube	11/15/18
		Additional Load Block	
		LIEBHERR 3 Sheave Block	
		Capacity 100 TON METRIC	
		Weight 3964 LBS	
		Sister Hook y1 y2 ; 214 Cm	
		NO OTHER DEFICIENCY or RECOMMENDATIONS AT THIS TIME	
		QIRLLC # 3594	
		Joseph E Gibbens	

Inspector:  11/6/18

Company Representative:  (Vibe)