

Quality Inspection and Repair LLC

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OSHA/ANSI Annual Periodic INSPECTION – CHECKLIST		Inspection No: 3414	Date: 04-12-2018
Type of Inspection: Annual Mobile Crane Safety Inspection		Expiration Date: 04-30-2019	
Make: LIEBHERR	Model: LR 1350-1	Serial Number: 074 042	
Rated Capacity: 350 metric ton		Unit: Crawler Crane	
Type: CRAWLER CRANE	Boom Length: SL @ 335 Ft	Jib Length: 295 ft Luffing/118 Fix jib	
Owner: ROCKY MOUNTAIN CRANE SERVICE		Contact Person: LUKE 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	N/A
11. Glass	N/A
12. Windshield Wipers	N/A
13. Door(s)/Door(s) Restraints	N/A
14. Fire Extinguisher	S
15. Mirrors	N/A
16. Seat(s) Restraint(s)	N/A
17. Seat Belt(s)	N/A
18. Instruments/Gauges	N/A
19. Control Identification	N/A
20. Electrical Switch/Function	N/A
21. Horn	N/A
22. Lights	N/A
23. Steering	N/A
24. Engine Clutch	N/A
25. Power take-off	N/A
26. Warning Device	N/A
27. Accelerator/Throttle	N/A
28. Brake	N/A
29. Parking Brake	N/A
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. Engine and Pumps	S
36. Drive Motors	S
37. Main Frame Members	S
38. Track Frames	S
39. Track Pads and Pins	S
40. Hydraulic Hoses/Tubing/Fittings	S
41. Hydraulic Fluid Level	S
42. Axle Lockout	S
43. Anti-Skid Surface	S
44. Travel Alarm	S
45. Car Body Counterweights	S
46. Suspension Connection	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)	S
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:	ROCKY MOUNTAIN CRANE SERVICE	Unit:	Crawler Crane	Date:	04-12-2018
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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. Luffing Jib Safety Switches/ Kickouts	S
Outriggers	
91. Boxes	N/A
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. Electrocutation Warning Sign (Outside)	S
136. Access to Cab and Roof	S
137. Steps/Hand Holds/Platforms	S
138. Luffing Jib Hoist	S
Main Boom	
139. Lift Cylinder for Mast	S
140. Telescoping Cylinder(s)	S
141. Hydraulic Hoses/Tubing/Fittings	S
142. Holding Device	S
143. Boom Sections Alignment	S
144. Wear Pads	N/A
145. Equal Extension	N/A
146. Boom Section Sequence	S
147. Boom Section identification	S
148. Structure	S
149. Warning Decals	S
150. Sheaves	R
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. Fix Jib Sections	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: ROCKY MOUNTAIN CRANE SERVICE	Unit: Crawler Crane	Date: 04-12-2018
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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 3 Sheave Block	
Rated Capacity: 125 Metric tone / 138 Ton us	
Block Weight: 3500 KG/ 7700 lbs	
Hook Tram Measure:	
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 Report	S
Overhaul Ball & Hook	
Manufacturer: LIEBHERR	
Rated Capacity:	
Block Weight:	
Hook Tram Measure:	
Item	Status
196. Capacity Marking	
197. Weight Marking	
198. Safety Latches	
199. 10° Hook Twist	
200. 15% Hook Throat Opening	
201. 10% Hook Wear	
202. Swivel	
203. Bearing	
204. Wedge Socket/End Fitting	
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	28 MM	MFG Lang Lay	28.33	S	S	S	S
209.	Aux. Hoist Drum	25 MM	MFG Lang Lay	25.31	S	S	S	S
210.	Boom Hoist Drum	25 MM	MFG	25.10	S	S	S	S
211.	Boom Pendants	LINKS	BOOM TENSION RODS	N/A	N/A	N/A	S	S
213.	3 rd Hoist Drum	N/A						
214.	Lufing Drum	25 MM	MFG Lang Lay	25.33	S	S	S	S

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Deficiency / Recommendation Report #3414

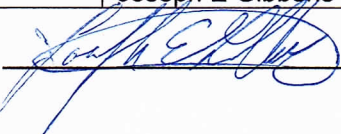
Date: 04-12-2018	Owner: ROCKY MOUNTAIN CRANE SERVICE	Unit: Crawler Crane
Make: LIEBHERR	Model: LR 1350-1	Serial No. 074 042

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, B30.23 and OSHA 1926.1400

D=Deficiency R=Recommendation

D/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.	
		LIEBHERR 1 Sheave Block	
		Capacity 50 tone metric / 55 Ton us	
		Weight 2000 Kg / 4400 lbs	
		Hook Tran; 7.0 in	
		NO DEFICIENCY or RECOMMENDATIONS AT TIME OF INSPECTION	
		QIRLLC # 3414	
		Joseph E Gibbens	

Inspector:



04/12/18

Company Representative:

