

Quality Inspection and Repair LLC

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OSHA/ANSI Annual Periodic INSPECTION – CHECKLIST		Inspection No: 3414	Date: 04-16-2018
Type of Inspection: Annual Mobile Crane Safety Inspection		Expiration Date: 04-30-2019	
Make: BUCYRUS ERIE	Model: 90 XC	Serial Number: 140330	
Rated Capacity: 90 TON		Unit: 83	
Type: Hydraulic Truck Crane	Boom Length: 104 FT	Jib Length: 94 FT (45+54)	
Owner: ROCKY MOUNTAIN CRANE SERVICE		Contact Person: KEN SUSTRICK	
135 CRANE LANE		Location: SALIDA YARD	
SALIDA, CO 81201		Phone No: 719-539-4699	

- ❖ 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.	S
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)	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

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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	
77.	
Safety Devices/Operational Aids	
78. Boom Angle Indication	S
79 Boom Length Indication	S
80. Main Drum Rotation Indicator	N/A
81. Aux. Drum Rotation Indicator	N/A
82. Load Moment Indicator	N/A
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	N/A
89. Boom Hoist Ratchet and Pawl	N/A
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	N/A
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	R
120. Aux Hoist – Wrapping on Drum	S
121. Aux Hoist – Minimum (2) Rope Wraps	S
122. Boom Hoist – Motor/Valves/Lines	N/A
123. Boom Hoist – Clutches/Brakes	N/A
124. Boom Hoist – Wrapping on Drum	N/A
125. Boom Hoist – Minimum (2) Rope Wraps	N/A
126. Boom Hoist – Gears/Shafts/Etc.	N/A
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)	S
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	N/A
153. Boom Foot/Foot Pins/Keepers	S
154. Boom Hinge Pins	N/A
155. Lattice Members	N/A
156. Cord Members	N/A
157. End Connections/Pins	S
158. Spreader Bar	N/A
159. Hoist Line Dead End	S
160. Wire Rope Retainer(s)	S
161.	
Boom Support System	
162. Gantry/Mast	N/A
163. Boom Stops	N/A
164. Inner Bail	N/A
165. Outer Bail/Equalizer	N/A
166. Sheaves	N/A
167. Boom Hoist Reeving	N/A
168.	
Manual Section	
169. Alignment	N/A
170. Locking Device	N/A

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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	S
181. Boom Extension Alignment	S
182.	
Main Load Block & Hook	
Manufacturer: JOHNSON	
Rated Capacity: 60 Ton	
Block Weight: 1160 lbs	
Hook Tram Measure: 9.00 in	
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	

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.	
Overhaul Ball & Hook	
Manufacturer: N/A	
Rated Capacity: 5 TON	
Block Weight: 200 lbs	
Hook Tram Measure: 4.00 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	3/4	N/A	.752	S	S	S	S
209.	Aux. Hoist Drum	3/4	N/A	.749	S	S	S	S
210.	Boom Hoist Drum	N/A						
211.	Boom Pendants	N/A						
213.	Jib Pendants	N/A						
214.	Other							

