



OSHA / ANSI ANNUAL/PERIODIC
INSPECTION CHECKLIST

Lattice Boom Crane

craneinstitute.com • 3880 St. Johns Parkway • Sanford, FL 32771 • 1-800-832-2726

Owner: CRANE SERVICE INC	Contact Person: SCOTT WELSON	Date: 7/8/2010
Location: CRANE SERVICE YARD (ALEBUQUE)	Service Status: LEFT CRANE	
Make: LINK-BELT	Model: HC-218	Serial Number: 1KH4914
Unit ID: 6414	Max. Capacity: 8.2 TON	Inspector: 10-8709

- 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 personnel and 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.

APPROVED JUL 08 2010 *[Signature]*

References: O = OSHA 1926.550, 1926.601, 1910.180, PCSA #2, ANSI B30.5 (1968) A = ANSI / ASME B30.5 (Latest)
Status: ✓ = Satisfactory D = Deficiency R = Recommendation N/A = Not Applicable

REFERENCE	ITEM	Status
Historical Data		
O-1926.550 (b)(2)	1. Monthly Inspection Records	✓
O-B30.5-2.3.1	2. Maintenance Records	✓
O-1926.550 (a)(16)	3. Repair / Modification Records	✓
O-B.30.5-2.2.2 (b)	4. Load Test Records	
General		
O-B30.5-2.1.3 (a)(1)	5. Sheet Metal	✓
O-1926.550 (a)(8)&(10)	6. Guards / Covers	✓
O-1926.601(2)(i)&(ii)	7. External Lights	✓
O-B30.5-3.4.7	8. Housekeeping	✓
O-1926.550 (a)(2)	9. Safety / Warning Decals & Labels	✓
O-1926.550 (a)(4)	10. Hand Signal Chart (outside)	✓
O-B30.5-2.1.3 (a)(1)	11. Paint Condition / Corrosion Control	✓
	12. Other	
Driver's Cab & Station		
O-1926.550(a)(13)(i)&(iii)	13. Access – Hand Holds / Steps	✓
O-1926.550 (a) (12)	14. Glass	✓
O-1926.601(b)(2)(i)&(ii)	15. Windshield Wiper(s)	✓
O-B30.5-1.8.1 (c)	16. Door(s) / Restraint(s)	✓
O-1926.601 (b)(4)	17. Mirrors	✓
O-1926.550 (a)(14)(i)	18. Fire Extinguisher	✓
O-1926.601 (b)(8)	19. Seat(s) / Restraint(s)	✓
O-1926.601 (b)(9)	20. Seat Belt(s)	✓
O-1926.601 (b)(1)	21. Parking Brake	✓
O-B30.5-2.1.2 (a)(4)	22. Air Pressure	✓
O-1926.550 (a)(2)	23. Controls Identified	✓
O-B30.5-2.1.3 (a)(6)	24. Instruments / Gauges	✓
O-B30.5-2.1.2 (a)(7)	25. Electrical Switches / Functions	✓
O-1926.601 (b)(3)	26. Horn	D
O-1926.601 (b)(2)	27. Lights	✓
O-B30.5-2.1.3 (a)(10)	28. Steering	✓
O-B30.5-1.6.4	29. Engine Clutch	✓
O-B30.5-1.6.3 (b)	30. Accelerator	✓
O-B30.5-2.1.3 (a)(10)	31. Brake	✓
	32. Other	

REFERENCE	ITEM	Status
Carrier Power Plant (Lower)		
O-B30.5-2.1.3 (a)(7)	33. Performance	✓
O-1926.550 (a)(10)	34. Exhaust System / Guards & Insulators	✓
O-B30.5-2.1.3	35. Belts / Hoses	✓
O-1926.550 (a)(8)	36. Guards / Covers / Rotat. & Recip. Parts	✓
	37. Other	
Carrier		
O-B30.5-2.1.3	38. Transmission	✓
O-B30.5-2.1.3	39. Drive Line	✓
O-B30.5-2.1.3 (a)(11)	40. Tires / Air Pressure / Wheels	✓
O-B30.5-2.1.3 (a)(1)	41. Main Frame Members	✓
O-B30.5-2.1.2 (a)(4)	42. Hydraulic Hoses / Tubing / Fittings	✓
O-B30.5-2.1.2 (a)(4)	43. Hydraulic Fluid Level	✓
O-1926.550 (a)(13)(ii)	44. Anti-Skid Surface	✓
O-B30.5-2.1.3 (a)(2&4)	45. Front Bumper Counterweight	✓
O-1926.601 (b)(4)(i)	46. Backup Alarm	✓
	47. Other	
Outriggers		
O-B30.5-2.1.3 (a)(1)	48. Boxes	✓
O-B30.5-2.1.3 (a)(1)	49. Beams	✓
O-B30.5-2.1.3 (a)	50. Cylinders	R
O-B30.5-1.9.3 (d)	51. Floats / Pads	D
O-B30.5-2.1.2 (a)(4)	52. Hydraulic Hoses / Tubes / Fittings	✓
O-B30.5-1.9.3 (b)	53. Holding Valves	✓
O-B30.5-2.1.3 (a)(4)	54. Position Locks	✓
O-1926.550 (a)(2)	55. Warning Signs	✓
	56. Other	
Crawler Assembly		
O-B30.5-2.1.3 (a)(1)	57. Car Body / Side Frames	
O-B30.5-2.1.3 (a)(8)	58. Chain – Condition / Adjustment	
O-B30.5-2.1.3 (a)(8)	59. Sprockets / Idlers / Rollers	
O-B30.5-2.1.3 (a)(4)	60. Track Pads / Pins	
O-B30.5-2.1.3 (a)(10)	61. Travel Locks	
O-B30.5-2.1.3 (a)(10)	62. Steering Clutches	
	63. Other	

REFERENCE	ITEM	Status
Operator's Cab & Station		
O-1926.550 (a)(13)(i)&(iii)	64. Grab Rails / Steps / Platforms	✓
O-1926.550 (a)(13)(iii)	65. Anti-Skid Surface	✓
O-1926.550 (a) (12)	66. Glass	✓
O-1926.601(b)(2)(i)&(ii)	67. Windshield Wiper(s)	N/A
O-B30.5-1.8.1.(c)	68. Door Restraint	✓
O-1926.550 (a)(14)(i)	69. Fire Extinguisher	✓
O-1926.601 (b)(4)	70. Mirrors	✓
O-1926.601 (b)(8)	71. Seat Restraint	✓
O-1926.601 (b)(9)	72. Seat Belt	✓
O-1926.550 (a)(1)	73. Operator's Manual	✓
O-1926.550 (a)(2)	74. Operating Instructions / Decals	✓
O-1926.550 (a)(2)	75. Electrocution Warning Sign (Inside)	✓
O-1926.550 (a)(4)	76. Hand Signal Chart	✓
O-B30.5-1.4.2 (a)	77. Swing Brake	✓
O-B30.5-1.4.2 (b)	78. Positive Swing Lock	✓
O-B30.5-1.6.2	79. Controls – Forces / Movements	✓
O-B30.5-2.1.2 (a)(4)	80. Air Pressure	N/A
O-B30.5-1.3.2 (a)(4)	81. Foot Brakes – Latches / Linkage	✓
O-B30.5-1.3.2 (c)	82. Power Controlled Lowering	✓
O-B30.5-1.6.4	83. Engine Clutch	✓
O-B30.5-1.6.3 (b)	84. Accelerator / Throttle Control	✓
	85. Other	✓
Load Chart		
O-1926.550 (a)(1)&(2)	86. Per Configuration	✓
O-B30.5-1.1.3	87. Durable	✓
O-B30.5-1.1.3	88. Legible	✓
O-B30.5-1.1.3	89. Visible From Operator's Station	✓
O-B30.5-1.1.3	90. Secured	✓
	91. Other	✓
Safety Devices / Operational Aids		
O-B30.5-1.9.9 (c)	92. Warning Devices	N/A
A-B30.5-1.9.1 (c)	93. Boom Angle Indicator	✓
O-B30.5-2.1.3 (a)(6)	94. Main Drum Rotation Indicator	✓
O-B30.5-2.1.3 (a)(6)	95. Auxiliary Drum Rotation Indicator	N/A
O-B30.5-2.1.2 (a)(3)	96. Load Moment Indicator	✓
A-B30.5-1.9.9.2	97. Load Weight Indicator	✓
O-B30.5-2.1.3 (a)(6)	98. Radius Indicator	✓
O-B30.5-1.9.9 (d)	99. Crane Level Indicator	✓
A-B30.5-1.9.9.1	100. Anti-Two Block Device	✓
A-B30.5-1.9.9.1	101. Two Block Warning Device	✓
O-B30.5-1.9.1 (c)	102. Boom Hoist Shut Off	✓
O-B30.5-1.3.1 (c)	103. Boom Hoist Ratchet and Pawl	N/A
	104. Other	✓
Power Plant (Upper)		
O-B30.5-2.1.3 (a)(7)	105. Performance	✓
O-1926.550 (a)(10)	106. Exhaust System / Guards & Insulators	✓
O-B30.5-2.1.3	107. Belts / Hoses	✓
O-1926.550 (a)(8)	108. Guards / Covers / Rotat. & Recip. Parts	✓
	109. Other	✓
Rotating Upper Structure		
O-B30.5-2.1.3 (a)(4)	110. Turntable / Bearing	✓
O-B30.5-2.1.3 (a)(4)	111. Turntable – Rollers / Roller Path	✓
O-B30.5-2.1.3 (a)(4)	112. Ring Gear / Pinion Gear	✓
A-B30.5-2.1.3 (m)	113. Hydraulic Pump(s)	✓
O-B30.5-2.1.2 (a)(4)	114. Hydraulic Hoses / Tubing / Fittings	✓
A-B30.5-2.1.3 (n)(6)	115. Hydraulic Pressure	✓

REFERENCE	ITEM	Status
Rotating Upper Structure (continued)		
O-B30.5-2.1.2 (a)(7)	116. Electrical Wiring	✓
O-B30.5-2.1.3 (a)(5)	117. Main Hoist – Clutches / Brakes	✓
O-B30.5-2.1.2.6	118. Main Hoist – Wrapping on Drum	✓
O-B30.5-1.3.2 (a)(2)	119. Main Hoist – Min. (2) Rope Wraps	✓
O-B30.5-2.1.3 (a)(5)	120. Aux. Hoist – Clutches / Brakes	R
O-B30.5-2.1.2.6	121. Aux. Hoist – Wrapping on Drum	✓
O-B30.5-1.3.2 (a)(2)	122. Aux. Hoist – Min. (2) Rope Wraps	✓
O-B30.5-2.1.3 (a)(5)	123. Boom Hoist – Clutches / Brakes	✓
O-B30.5-1.3.1 (d)(1)	124. Boom Hoist – Wrapping on Drum	✓
O-B30.5-1.3.1 (d)(1)	125. Boom Hoist – Min. (2) Rope Wraps	✓
O-B30.5-2.1.3 (a)(4)	126. Boom Hoist – Gears / Shafts / Etc.	✓
O-B30.5-2.1.3 (a)(4)	127. Swing System / Assembly	✓
A-B30.5-2.1.3 (m&n)	128. Hydraulic Motors / Valves / Lines / Etc.	✓
O-B30.5-2.1.3 (a)(3)	129. Drums / Flanges	✓
O-B30.5-1.9.7	130. Clutch / Brake Protection	✓
A-B30.5-2.1.3	131. Torque Converter	✓
O-1926.550 (a)(13)(iii)	132. Anti-Skid Surface	✓
O-B30.5-1.8.3	133. Steps / Hand Holds / Platforms	✓
O-B30.5-1.8.3 & 4	134. Access to Cab and Roof	✓
O-B30.5-2.1.2 (4)	135. Air System – Compressor / Lines / Etc.	N/A
O-B30.5-2.1.3 (a)(2&4)	136. Counterweight & Mounting	✓
O-1926.550 (a)(2)	137. Counterweight Warning Sign	✓
O-1926.550 (a)(2)	138. Electrocution Warning Sign (Outside)	✓
	139. Other	✓
Boom Support System		
O-B30.5-2.1.3 (a)	140. Gantry / Mast	✓
O-B30.5-1.9.1 (a)	141. Boom Stops	✓
O-B30.5-2.1.3 (a)	142. Inner Bail	✓
O-B30.5-2.1.3 (a)	143. Outer Bail / Equalizer	✓
A-B30.5-1.7.4	144. Sheave(s)	✓
O-B30.5-2.1.2.6	145. Boom Hoist Reeving	✓
	146. Other	✓
Boom		
O-B30.5-1.9.1 (d)	147. Boom Section Identification	✓
O-B30.5-1.9.1 (d)	148. Boom Section Sequence	✓
O-B30.5-2.1.3 (a)(1)	149. Boom Section Alignment	✓
O-1926.550 (a)(2)	150. Warning Decals	✓
O-B30.5-2.1.2 (a)(2)	151. Spreader Bar	N/A
A-B30.5-1.7.4	152. Sheave(s)	✓
O-B30.5-1.7.3	153. Hoist Line Dead End	✓
O-B30.5-1.7.4 (b)	154. Wire Rope Retainer(s)	✓
O-B30.5-2.1.3 (a)(4)	155. Boom Foot Pins / Keepers	✓
O-B30.5-2.1.3	156. Boom Head Section	✓
O-B30.5-2.1.3 (a)(1)	157. Auxiliary Boom Head	N/A
O-B30.5-2.1.3 (a)(1)	158. Lattice Members	D
O-B30.5-2.1.3 (a)(1)	159. Cord Members	✓
O-B30.5-2.1.3 (a)(1)	160. End Connections / Pins	✓
	161. Other	✓
Jib		
O-1926.550(b)(1)	162. Positive Stops	✓
A-B30.5-1.7.4	163. Sheave(s)	✓
O-B30.5-1.7.4 (b)	164. Wire Rope Retainer(s)	✓
O-B30.5-2.1.3 (a)(1)	165. Lattice Members	✓
O-B30.5-2.1.3 (a)(1)	166. Cord Members	✓
O-B30.5-2.1.3 (a)(1)	167. End Connections / Pins	✓
	168. Other	✓

169. Wire Rope											
Rope Application	Type	Size	Construct.	Grade	Core	Rope Damage	Measured Wear	Broken Wires	Lubrication	End Connections	Status
Main Hoist Drum	N	3/4"	6x25	EIPS	INWRC	Ø	.780	Ø	✓	✓	✓
Aux. Hoist Drum	NOT IN USE										
Boom Hoist Drum	T	3/4"	6x25	EIPS	INWRC	Ø	.774	Ø	✓	✓	✓
Boom Pendants	N	1 1/4"	6x25	EIPS	INWRC	Ø	1.265	Ø	✓	✓	✓
Jib Pendants											
Other											

Main Load Block & Hook			Overhaul Ball & Hook		
Manufacturer:		S/N:	Manufacturer: JOHNSON		S/N: 99-5-329
Rated Capacity:			Rated Capacity: 7.5 TON		
Block Weight:			Block Weight: 356 LBS.		
Hook Tram Meas:			Hook Tram Meas: 4"		
REFERENCE	ITEM	Status	REFERENCE	ITEM	Status
A-B30.5-1.7.6	170. Capacity Marking		A-B30.5-1.7.6	183. Capacity Marking	✓
A-B30.5-1.7.6	171. Weight Marking		A-B30.5-1.7.6	184. Weight Marking	✓
A-B30.5-1.7.4	172. Sheave(s)		A-B30.5-1.7.6	185. Safety Latches	✓
A-B30.5-1.7.6	173. Safety Latches		O-B30.5-2.1.2 (a)(5)	186. 0° Hook Bend or Twist	✓
O-B30.5-2.1.2 (a)(5)	174. 0° Hook Bend or Twist		O-B30.5-2.1.2 (a)(5)	187. 5% Hook Throat Opening or 1/4"	✓
O-B30.5-2.1.2 (a)(5)	175. 5% Hook Throat Opening or 1/4"		A-B30.10-1.2.3 (b)(2)	188. 10% Hook Wear	✓
A-B30.10-1.2.3 (b)(2)	176. 10% Hook Wear		O-B30.5-2.1.3 (a)(4)	189. Swivel	✓
O-B30.5-2.1.3 (a)(4)	177. Swivel		O-B30.5-2.1.3 (a)(4)	190. Bearing	✓
O-B30.5-2.1.3 (a)(4)	178. Bearing		O-B30.5-1.7.3 (c)	191. Wedge Socket / End Fitting	✓
O-B30.5-1.7.3 (c)	179. Wedge Socket / End Fitting		O-B30.5-2.1.3 (a)(9)	192. NDT Results:	
O-B30.5-2.1.2 (a)(6)	180. Reeving			193. Other	
O-B30.5-2.1.3 (a)(9)	181. NDT Results:				
	182. Other				

APPROVED JUL 08 2010

No-Load Operational Test		
REFERENCE	ITEM	Status
O-B30.5-2.2.2	194. No-Load Operational Test	✓

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.

O-B30.5-2.2.2 195. Load Test							
Hoisting from:	Boom / Jib Length	Load Radius	Boom Angle	Parts of Line	Rated Capacity	Test Weight	% of Rated Capacity
Boom							
Jib							

Results of Load Test Passed Failed Not Applicable
 Explanation:

Caution: Load Test shall be conducted by a qualified person using only operators who have met all operator qualification requirements as outlined in ANSI / ASME B30.5. i.e. passed physical, written and practical examinations for type crane operated.



Deficiency / Recommendation Report

craneinstitute.com • 3880 St. Johns Parkway • Sanford, FL 32771 • 1-800-832-2726

Date: <u>7-8-2010</u>	Owner: <u>CRANE SCOUTER</u>	Mfg: <u>LENE-BEET</u>	SN: <u>184A414</u>
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The following corrective actions(s) (repairs, adjustments, replacement parts, etc.) are to be performed by a qualified person in accordance with all the manufacturer's instructions, specifications, and requirements. OSHA requires that "any deficiency (D) shall be repaired or defective parts replaced before continued use."

Recommendations (R) should be considered for corrective action. The advisability of a particular recommendation depends on the facts in each situation. Any corrective action is to be performed by a qualified person in accordance with all manufacturer's recommendations, specifications, and requirements.

D = Deficiency R = Recommendation

D/R	ITEM #	CORRECTIVE ACTION	DATE CORRECTED
R	11	PAINT IS AGED & SHOWING SIGNS OF CORROSION.	
D	26	HOOK IMPROPER	
R	50	O/R JACKS SHOWING EXTERNAL LEAKS	
D	51	MIX MATCHED AND DAMAGED O/R PADS	
R	120	AUX HOIST CLUTCH LEAKING.	
D	15X	MULTIPLE DAMAGED AND CORRODED LAGS. PROVISIONAL HUNGRY REPAIR #1 7/8/10	

Inspector: 10-8709

Company Representative: [Signature] 7/8/10