

LATTICE BOOM CRANE

OSHA/ANSI Annual/Periodic INSPECTION CHECKLIST

Owner: VISTA DESIGN	Contact Person: BEN	Date: 09/21/12
Location:	Service Status:	
Make: LIMA	Model: 700HC	Serial Number: 3690-8
Unit Id:	Hours: 15,021	Inspector: RAY KOWALSKI

- Before inspecting crane, lock out / tag out power source
- Consult Operator / Service Manual for additional inspection items, service bulletins and other information
- 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: O = OSHA 1926.550, 1910.180, PCSA#2, ANSI B30.5 (1968) A = ANSI / ASME B30.5 (Latest)

Status: S = Satisfactory X = Deficiency R = Recommendation N/A = Not applicable

REFERENCE	ITEM	Status
Historical Data		
O-1926.550(b)(2)	1. Monthly Inspection Reports	R
O-B30.5-2.3.1	2. Maintenance Records	R
O-1926.550(a)(16)	3. Repair / Modification Records	N/A
General		
O-B30.5-1.2.1. (a)	4. Sheet Metal	R
O-1926.550(a)(8)&(10)	5. Guards/ Covers	S
O-1926.601(2)(i) &(ii)	6. Lights / External	N/A
O-B30.5-3.4.7	7. Housekeeping	R
O-1926.550 (a) (2)	8. Safety/Warning Decals & Labels	R
O-1926.550(a)(4)	9. Hand signal chart (outside)	S
O-B30.5-2.1.3.(a)(1)	10. Paint Condition/ Corrosion Control	S
	11. Other	
Driver's Cab & Station		
O-1926.550 (a)(13)(i)&(iii)	12. Access- Hand Holds/ Steps	N/A
O-1926.550 (a)(12)	13. Glass	N/A
O-1926.601 (b)(2)(i)&(ii)	14. Windshield Wipers(s)	N/A
O-B30.5-1.8.1. (c)	15. Door(s) Restraint(s)	N/A
O-1926.601 (b)(4)	16. Mirrors	N/A
O-1926.550 (a)(14)(i)	17. Fire Extinguisher	N/A
O-1926.601 (b)(8)	18. Seat(s) Restraint(s)	N/A
O-1926.601 (b)(9)	19. Seat Belt(s)	N/A
O-1926.601 (b)(1)	20. Parking Brake	N/A
O-B30.5-2.1.2. (a) (4)	21. Air Pressure	N/A
O-1926.550 (a) (2)	22. Controls identified	N/A
O-B30.5-2.1.3. (a) (6)	23. Instruments / Gauges	N/A
O-B30.5-2.1.2	24. Electrical Switches/Functions	N/A
O-1926.601 (b) (3)	25. Horn	N/A
O-1926.550 (a) (1)	26. Lights	N/A
O-1926.601 (b) (4) (i)	27. Backup Alarm	N/A
O-B30.5-2.1.3. (a)(10)	28. Steering	N/A
O-B30.5-1.6.4	29. Engine Clutch	N/A
O-B30.5-1.6.3 (b)	30. Accelerator	N/A
O-B30.5-2.1.3. (a) (10)	31. Brake	N/A
	32. Other	

REFERENCE	ITEM	Status
Carrier Power Plant (Lower)		
O-B30.5-2.1.3.(a) (7)	33. Performance	N/A
O-19296.550 (a) (10)	34. Exhaust system/Guards&Insulators	N/A
O-B30.5-2.1.3	35. Belts/ Hoses	N/A
O-1926.550 (a) (8)	36. Guards/Covers/Rotat.&Recip Parts	N/A
	37. Other	N/A
Carrier		
O-B30.5-2.1.3	38. Transmission	N/A
O-B30.5-2.1.3	39. Drive Line	N/A
O-B30.5-2.1.3. (a) (11)	40. Tires / Wheels	N/A
O-B30.5-2.1.3. (a) (1)	41. Main Frame Members	N/A
O-B30.5-2.1.2. (a) (4)	42. Hydraulic Hoses/ Tubing/ Fittings	N/A
O-B30.5-2.1.2. (a) (4)	43. Hydraulic Fluid Level	N/A
O-1926.550(a) (13) (iii)	44. Anti-Skid Surface	N/A
O-B30.5-2.1.3. (a) (2&4)	45. Front Bumper Cwt.	N/A
	46. Other	N/A
Outriggers		
O-B30.5-2.1.3. (a) (1)	47. Boxes	N/A
O-B30.5-2.1.3. (a) (1)	48. Beams	N/A
O-B30.5-2.1.3. (a)	49. Cylinders	S
O-B30.5-1.9.3. (d)	50. Floats/ Pads	S
O-B30.5-2.1.2. (a) (4)	51. Hydraulic Hoses/ Tubes/ Fittings	S
O-B30.5-1.9.3. (b)	52. Holding Valves	N/A
O-B30.5-2.1.3. (a) (4)	53. Position Locks	N/A
O-1926.550 (a) (2)	54. Warning Signs	N/A
	55. Other	
Crawler Assembly		
O-B30.5-2.1.3. (a) (1)	56. Car Body/ Side Frames	R
O-B30.5-2.1.3. (a) (8)	57. Chain-Condition/ Adjustment	R
O-B30.5-2.1.3. (a) (8)	58. Sprockets/ Idlers/ Rollers	R
O-B30.5-2.1.3. (a) (4)	59. Track Pads/ Pins	R
O-B30.5-2.1.3. (a) (10)	60. Travel Locks	S
O-B30.5-2.1.3. (a) (10)	61. Steering Clutches	S
	62. Other	
	63. Other	

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

REFERENCE	ITEM	Status
Operator's Cab & Station		
O-1926.550(a)(13)(i)&(iii)	64. Grab Rails / Steps / Platforms	S
O-1926.550(a)(13)(iii)	65. Anti-Skid Surface	S
O-1926.550 (a) (12)	66. Glass	R
O-1926.601(b)(2)(i)&(ii)	67. Windshield Wiper(s)	R
O-B30.5-1.8.1.(c)	68. Door Restraint	S
O-1926.550(a)(14)(i)	69. Fire Extinguisher	N/A
O-1926.601 (b) (4)	70. Mirrors	R
O-1926.601 (b) (8)	71. Seat Restraint	N/A
O-1926.601 (b) (9)	72. Seat Belts	N/A
O-1926.550 (a) (1)	73. Operator's Manual	S
O-1926.550 (a) (2)	74. Operating Instructions / Decals	S
O-1926.550 (a) (2)	75. Electrocutation Warning Sign(inside)	S
O-1926.550 (a) (2)	76. Hand Signal Chart	R
O-B30.5-1.4.2. (a)	77. Swing Brake	S
O-B30.5-1.4.2. (b)	78. Positive Swing Lock	S
O-B30.5-1.6.2	79. Controls- Forces / Movements	S
O-B30.5-2.1.2. (a) (4)	80. Air Pressure	R
O-B30.5-1.3.2. (a) (4)	81. Foot Brakes- Latches/ Linkage	S
O-B30.5-1.3.2. (c)	82. Power Controlled Lowering	S
O-B30.5-1.6.4	83. Engine Clutch	S
O-B30.5-1.6.3 (b)	84. Accelerator / Throttle Control	S
	85. Other	R
Load Chart		
O-1926.550 (a) (1) & (2)	86. Per Configuration	S
O-B30.5-1.1.3	87. Durable	S
O-B30.5-1.1.3	88. Legible	S
OB30.5-1.1.3	89. Visible From Operator's Station	S
O-B30.5-1.1.3	90. Secured	S
	91. Other	
Safety Devices/ Operational Aids		
O-B30.5-1.9.9. (c)	92. Warning Devices	S
O-B30.5-2.1.3. (a) (6)	93. Boom Angle Indicator	S
O-B30.5-1.3.2. (a) (5)	94. Main Drum Rotation Indicator	N/A
O-B30.5-1.3.2. (a) (5)	95. Aux. Drum Rotation indicator	N/A
O-B30.5-2.1.2. (a) (3)	96. Load Moment Indicator	N/A
A-B30.5-2.1.6	97. Load Weight Indicator	N/A
O-B30.5-2.1.3. (a) (6)	98. Radius Indicator	N/A
O-B30.5-1.9.9. (d)	99. Crane Level Indicator	S
A-B30.5-9.9	100. Anti-Two Block Device	S
A-B30.5-1.9.9	101. Two Block Warning Device	S
O-B30.5-1.9.1. (c)	102. Boom Hoist Shut Off	S
O-B30.5-1.3.1. (c)	103. Boom Hoist Ratchet and Pawl	S
	104. Other	
Power Plant (Upper)		
O-B30.5-2.1.3. (a) (7)	105. Performance	S
O-1926.550 (a) (10)	106. Exhaust system/Guards/Insulators	S
O-B30.5-2.1.3	107. Belts/ Hoses	R
O-1926.550I (a) (8)	108. Guards/Covers/Rotat. & Recip. Parts	S
	109. Other	R
Rotating Upper Structure		
O-B30.5-2.1.3. (a) (4)	110. Turntable/ Bearing	S
O-B30.5-2.1.3. (a) (4)	111. Turntable- Rollers/ Roller Path	S
O-B30.5-2.1.3. (a) (4)	112. Ring Gear/ Pinion Gear	S
A-B30.5-2.1.3. (m)	113. Hydraulic Pump(s)	S
O-B30.52.1.2. (a) (4)	114. Hydraulic Hoses/ Tubing/Fitting	R
A-B30.5-2.1.3. (n) (6)	115. Hydraulic Pressure	N/A

REFERENCE	ITEM	Status
Rotating Upper Structure Con't		
O-B30.5-2.1.2. (a) (7)	116. Electrical Wiring	
O-B30.5-2.1.3. (a) (5)	117. Main Hoist- Clutches/ Brakes	S
O-B30.5-1.3.2. (a) (2)	118. Main Hoist- Wrapping on Drum	S
O-B30.5-1.3.2. (a) (2)	119. Main Hoist- Min (2) Rope Wraps	N/A
A-B30.5-2.1.3. (a) (5)	120. Aux. Hoist- Clutches / Brakes	S
O-B30.5-2.1.2.6	121. Aux. Hoist- Wrapping on Drum	S
O-B30.5-1.3.2 (a) (2)	122. Aux. Hoist- Min (2) Rope Wraps	N/A
O-B30.5-2.1.3. (a) (5)	123. Boom Hoist- Clutches/ Brakes	S
O-B30.5-1.3.1. (d) (1)	124. Boom Hoist- Wrapping on Drum	S
O-B30.5-1.3.1. (d) (1)	125. Boom Hoist0 Min (2) Rope Wraps	N/A
O-B30.5-2.1.3. (a) (4)	126. Boom Hoist0 Gears/ Shafts/ Etc.	S
O-B30.5-2.1.3. (a) (4)	127. Swing System/ Assembly	S
A-B30.5-2.1.3 (m & n)	128. Hydraulic Motors/Valves/Lines/Etc.	N/A
O-B30.5-2.1.3. (a) (3)	129. Drums/ Flanges	S
O-B30.5-1.9.7	130. Clutch/ Brake Protection	S
A-B30.5-2.1.3.	131. Torque Converter	S
O-1926.550(a)(13)(iii)	132. Anti-Skid Surface	S
O-B30.5-1.8.3	133. Steps/ Hand Holds/ Platforms	S
O-B30.5-1.8.3 & 4	134. Access to Cab and Roof	N/A
O-B30.5-2.1.2. (4)	135. Air System- Compressor/Lines/Etc.	R
O-B30.5-2.1.3.(a)(2&4)	136. Counterweight & Mounting	S
O-1926.550 (a) (2)	137. Counterweight Warning Sign	R
O-1926.550 (a) (2)	138. Electrocutation Warning Sign(Outside0	S
	139. Other	
Boom Support System		
O-B30.5-2.1.3 (a)	140. Gantry/ Mast	S
O-B30.5-1.9.1. (a)	141. Boom Stops	S
O-B30.5-2.1.3 (a)	142. Inner Bail	S
O-B30.5-2.1.3 (a)	143. Outer Bail/ Equalizer	S
O-B30.5-2.1.3. (a) (3)	144. Sheaves	S
O-B30.5-2.1.2.6	145. Boom Hoist Reeving	S
	146. Other	
Boom		
O-B30.5-1.9.1. (d)	147. Boom Section Identification	N/A
O-B30.5-1.9.1. (d)	148. Boom Section Sequence	N/A
O-B30.5-2.1.3. (a) (1)	149. Boom Section Alignment	N/A
O-1926.550 (a) (2)	150. Warning Decals	S
O-B30.5-2.1.2 (a) (2)	151. Spreader Bar	S
O-B30.5-2.1.2 (a) (3)	152. Sheaves	S
O-B30.5-1.7.3	153. Hoist Line Dead End	S
O-B30.5-1.7.4. (b)	154. Wire Rope Retainer(s)	N/A
O-B30.5-2.1.3. (a) (4)	155. Boom Foot Pins/ Keepers	N/A
O-B30.5-2.1.3	156. Boom Head Section	N/A
O-B30.5-2.1.3. (a)(11)	157. Auxiliary Boom Head	N/A
O-B30.5-2.1.3. (a) (1)	158. Lattice Members	N/A
O-B30.5-2.1.3. (a) (1)	159. Cord Members	N/A
O-B30.5-2.1.3. (a) (1)	160. End Connections/ Pins	N/A
	161. Other	
Jib		
O-1926.550 (b) (1)	162. Positive Stops	N/A
O-B30.5-2.1.3. (a) (3)	163. Sheave(s)	N/A
O-B30.5-1.7.4. (b)	164. Wire Rope Retainer(s)	N/A
O-B30.5-2.1.3. (a) (1)	165. Lattice Members	N/A
O-B30.5-2.1.3. (a) (1)	166. Cord Members	N/A
O-B30.5-2.1.3. (a) (1)	167. End Connections/ Pins	N/A
	168. Other	

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169. Wire Rope											
Rope Application	Type	Size	Construct.	Grade	Core	Rope Damage	Measured Wear	Broken Wires	Lubrication	End Connections	Status
Main Hoist Drum	REG LAY	3/4			S	S	S	S	S	S	S
Aux. Hoist Drum	REG LAY	3/4			S	S	S	S	S	S	S
Boom Hoist Drum	REG LAY	3/4			S	S	S	S	S	S	S
Boom Pendants	N/A										
Jib Pendants	N/A										
Other	3 RD DRUM	5/8			S	S	S	S	S	S	S

Main Load Block & Hook		
Manufacturer: N/A		
Rated Capacity :N/A		
Block Weight: N/A		
Hook Tram Meas :N/A		
REFERENCE	ITEM	Status
A-B30.5-1.7.6	170. Capacity Marking	N/A
A-B30.5-1.7.6	171. Weight Marking	N/A
O-B30.5-2.1.2. (a) (3)	172. Sheaves	N/A
A-B30.5-1.7.6	173. Safety Latches	N/A
O-B30.5-2.1.2.(a) (5)	174. 10° Hook Twist	N/A
O-B30.5-2.1.2. (a) (5)	175. 15% Hook Throat Opening	N/A
A-B30.10-1.2.3	176. 10% Hook Wear	N/A
O-B30.5-2.1.3.(a)(4)	177. Swivel	N/A
O-B30.5-2.1.3.(a)(4)	178. Bearing	N/A
O-B30.5-1.7.3 (c)	179. Wedge socket/ End Fitting	N/A
O-B30.5-2.2.1.(a)(6)	180. Reeving	N/A
O-B30.5-2.1.3.(a)(9)	181. NDT-Results:	N/A
	182. Other	

Rotating Upper Structure		
Manufacturer: N/A		
Rated Capacity :N/A		
Block Weight: N/A		
Hook Tram Meas: N/A		
REFERENCE	ITEM	Status
A-B30.5-1.7.6	183. Capacity Marking	N/A
A-B30.5-1.7.6	184. Weight Marking	N/A
A-B30.5-1.7.6	185. Safety Latches	N/A
O-B30.5-2.1.2.(a)(5)	186. 10° Hook Twist	N/A
O-B30.5-2.1.2.(a)(5)	187. 15% Hook Throat Opening	N/A
O-B30.10-1.2.3	188. 10% Hook Wear	N/A
O-B30.5-2.1.3.(a)(4)	189. Swivel	N/A
O-B30.5-2.1.3.(a)(4)	190. Bearing	N/A
O-B30.5-1.7.3. (c)	191. Wedge Socket/ End Fitting	N/A
O-B30.5-2.1.3.(a)(9)	192. NDT-Results:	N/A
	193. Other	

No Load Operation Test			
REFERENCE	ITEM N/A	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 B20.5.i.e. passed physical and written examinations.
O-B30.5-2.2.2.(1968)	194. No Load Operational Test		

Load Test							
Hoisting From:	Boom/ Jib Length	Load Radius	Boom Angle	Parts of Line	Rated Capacity	Test Weight	% of Rated Capacity
Boom	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jib	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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.

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Date:09/21/12

Owner: vista design

Unit:

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

D= Deficiency R= Recommendation

[illegible]

Inspector: Ray Kowalski

Company Representative: