

Lattice Boom Crane

Owner:		Contact Person:		Date: <u>3-26-2025</u>
Location: <u>Pechum, CO</u>		Service Status: <u>Active</u>		Hours: <u>4923</u>
Make: <u>Link Belt</u>		Model: <u>228 HSL</u>		Serial Number: <u>T4K9-6490</u>
Unit ID: <u>CR4</u>		Max. Capacity: <u>130 TON</u>		Inspector: <u>JSD/Donal 18-0300</u>

- Before inspecting crane, lock out/tag out power source.
- Consult operator/service manual, service bulletins, etc. for additional inspection items.
- Before inspection, crane must be set up away from personnel and power lines, with outriggers/crawlers fully extended and crane leveled on firm ground.
- OSHA and ASME 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 Subpart CC, 1926.601, 1910.180 A = PCSA #4, ASME B30.5, B30.10

Status: ✓ = Satisfactory X = Safety Hazard M = Monitor R = Recommendation N/A = Not Applicable

REFERENCE	ITEM	Status
Historical Data		
O-1926.1412 (e)(3)	1. Monthly Inspection Records	N/A
A-B30-5.2.3.1 (a)	2. Maintenance Records	✓
O-1926.1434 (a)	3. Modification Records	✓
A-B30-5.2.2.2 (b)(2)	4. Load Test Records	✓
O-1926.1412 (f)(7)	5. Annual Inspection Record	N/A
General		
A-B30-5.2.1.3 (a)	6. Sheet Metal	✓
O-1926.1433 (d)(8)	7. Guards / Covers	✓
O-1926.601(2)(i)&(ii)	8. External Lights	✓
A-B30-5.3.4.8	9. Housekeeping	✓
O-1926.1433 (d)(5)	10. Safety / Warning Decals & Labels	✓
O-1926.1422	11. Hand Signal Chart	✓
	12. Other	
	13. Other	
Driver's Cab & Station		
O-1926.601 (b)(1)	14. Service Brake	N/A
O-1926.601 (b)(1)	15. Emergency Brake	✓
O-1926.601 (b)(1)	16. Parking Brake	✓
O-1926.601 (b)(2)	17. Headlights	✓
O-1926.601 (b)(2)	18. Taillights	✓
O-1926.601 (b)(2)(iii)	19. Brake Lights	✓
O-1926.601 (b)(3)	20. Audible Warning Device	✓
O-1926.601 (b)(4)(i)	21. Backup Audible Alarm	✓
O-1926.1433 (d)(7)(iii)	22. Windows	✓
O-1926.601 (b)(5)	23. Windshield Wipers	✓
O-1926.601 (b)(5)	24. Defroster	✓
O-1926.601 (b)(6)	25. Overhead Protection	✓
O-1926.601 (b)(7)	26. Housekeeping	✓
O-1926.1412(f)(2)(xviii)&(d)(9)	27. Seat	✓
O-1926.601 (b)(9)	28. Seat Belts	✓
O-1926.601 (b)(14)	29. Tires	✓
O-1926.601 (b)(14)	30. Steering Mechanism	✓
O-1926.601 (b)(14)	31. Operating Controls	✓
O-1926.601 (b)(14)	32. Safety Devices	✓
O-1926.601 (b)(14)	33. Fire Extinguisher	N/A

REFERENCE	ITEM	Status
Carrier Power Plant (Lower)		
O-1926.1412 (f)(2)(vi)	34. Performance	N/A
O-1926.1433 (d)(9)	35. Exhaust System / Guards & Insulators	✓
O-1926.1433 (d)(8)	36. Belts	✓
O-1926.1433 (d)(8)	37. Guards / Covers / Rotat. & Recip. Parts	✓
	38. Other	N/A
Carrier		
O-1926.601 (b)(14)	39. Transmission	N/A
O-1926.601 (b)(14)	40. Drive Line	✓
O-1926.1412 (f)(2)(ix)	41. Tires	✓
O-1926.1412 (f)(2)(i)	42. Main Frame Members	✓
O-1926.1412 (f)(2)(x)	43. Hydraulic Hoses / Tubing / Fittings	✓
O-1926.1412 (d)(1)(iv)	44. Hydraulic Fluid Level	✓
O-1926.1423 (c)(3)(ii)	45. Anti-Skid Surface	✓
O-1926.1417 (aa)	46. Front Bumper Counterweight	✓
	47. Other	N/A
Outriggers		
O-1926.1412 (f)(2)(i)	48. Boxes	✓
O-1926.1412 (f)(2)(i)	49. Beams	✓
O-1926.1412 (f)(2)(xiii)	50. Cylinders	✓
O-1926.1412 (f)(2)(xv)	51. Floats / Pads	✓
O-1926.1412 (f)(2)(x)	52. Hydraulic Hoses / Tubes / Fittings	✓
O-1926.1412 (f)(2)(xiii)	53. Holding Valves	✓
O-1926.1412 (f)(2)(iii)	54. Position Locks	✓
O-1926.1433 (d)(5)	55. Warning Signs	✓
	56. Other	✓
Crawler Assembly		
O-1926.1412 (f)(2)(i)	57. Car Body / Side Frames	✓
O-1926.1412 (f)(2)(vi)	58. Chain - Condition / Adjustment	N/A
O-1926.1412 (f)(2)(vii)	59. Sprockets / Idlers / Rollers	✓
O-1926.1412 (f)(2)(i)	60. Track Pads / Pins	53/53
O-1926.1412 (f)(2)(viii)	61. Travel Locks	✓
O-1926.1412 (f)(2)(viii)	62. Steering Clutches	N/A
O-1926.1412 (f)(2)(x)	63. Hydraulic Hoses	✓
O-1926.1412 (f)(2)(xi)	64. Hydraulic Motors	✓
O-1926.1412 (f)(2)(xiii)	65. Hydraulic Steering	✓

REFERENCE	ITEM	Status
Operator's Cab & Station		
O-1926.1412 (f)(2)(xvi)	66. Grab Rails / Steps / Platforms	✓
O-1926.1423 (c)(3)(ii)	67. Anti-Skid Surface	✓
O-1926.1433 (d)(7)(iii)	68. Windows	✓
O-1926.1433 (d)(7)(iii)	69. Windshield Wiper(s)	✓
O-1926.1433 (d)(7)(iii)	70. Door Restraint	✓
O-1926.1433 (d)(7)(iii)	71. Fire Extinguisher	✓
O-1926.1433 (d)(6)	72. Mirrors	✓
O-1926.601 (b)(4)	73. Seat	✓
O-1926.1412 (f)(2)(xvi)&(xvii)	74. Seat Belts	✓
A-B30.5-1.8.1 (e)	75. Operator's Manual	✓
O-1926.1433 (d)(1)	76. Decals	✓
O-1926.1433 (d)(5)	77. Electrocutation Warning Sign (Inside)	✓
O-1926.1407 (g)	78. Hand Signal Chart	✓
O-1926.1422	79. Swing Brake	✓
O-1926.1412 (f)(2)(iv)	80. Positive Swing Lock	✓
O-1926.1412 (f)(2)(iii)	81. Control Function	✓
O-1926.1412 (d)(i)&(ii)	82. Air Pressure	✓
O-1926.1412 (f)(2)(x)(A)	83. Foot Brakes – Latches / Linkage	✓
O-1926.1415 (a)(4)	84. Engine Clutch	✓
O-1926.1412 (f)(2)(iv)	85. Accelerator / Throttle Control	✓
O-1926.1412 (d)(0)&(i)	86. Control Marking	✓
A-B30.5-1.6.1 (a)	Load Chart	
O-1926.1433 (d)(1)	87. Per Configuration	✓
O-1910.180 (c)(2)	88. Durable	✓
O-1910.180 (c)(2)	89. Legible	✓
O-1910.180 (c)(2)	90. Visible From Operator's Station	✓
O-1910.180 (c)(2)	91. Secured	✓
	92. Other	✓
Safety Devices / Operational Aids		
O-1926.1415 (a)(7)	93. Horn	✓
O-1926.1416 (e)(1)	94. Boom Angle Indicator	✓
O-1926.1416 (e)(5)(ii)	95. Main Drum Rotation Indicator	✓
O-1926.1416 (e)(5)(iii)	96. Auxiliary Drum Rotation Indicator	✓
O-1926.1412 (f)(2)(v)	97. Load Moment Indicator	✓
O-1926.1416 (e)(4)	98. Load Weight Indicator	✓
O-1926.1416 (e)(1)	99. Radius Indicator	✓
O-1926.1415 (a)(1)	100. Crane Level Indicator	✓
O-1926.1416 (d)(3)	101. Anti-Two Block Device	✓
O-1926.1416 (d)(1)	102. Boom Hoist Limiting Device	✓
O-1926.1412 (f)(2)(iv)	103. Boom Hoist Ratchet and Pawl	✓
O-1926.1416 (e)(5)(i)	104. Outrigger / Stabilizer Position Sensor	✓
O-1926.1416 (e)(2)	105. Luffing Jib Angle Indicator	✓
Power Plant (Upper)		
O-1926.1412 (f)(2)(vi)	106. Performance	✓
O-1926.1433 (d)(9)	107. Exhaust System / Guards & Insulators	✓
O-1926.1412 (d)(1)(iii)	108. Hoses	✓
O-1926.1433 (d)(8)	109. Guards / Covers / Rotat. & Recip. Parts	✓
	110. Other	✓
Rotating Upper Structure		
O-1926.1412 (f)(2)(iii)	111. Turntable / Bearing	✓
O-1926.1412 (f)(2)(iii)	112. Turntable – Rollers / Roller Path	✓
O-1926.1412 (f)(2)(iii)	113. Ring Gear / Pinion Gear	✓
O-1926.1412 (f)(2)(x)	114. Hydraulic Pump(s)	✓
O-1926.1412 (f)(2)(x)	115. Hydraulic Hoses / Tubing / Fittings	✓
O-1926.1412 (f)(2)(x)	116. Hydraulic Pressure	✓
O-1926.1412 (d)(1)(viii)	117. Electrical Wiring	✓

REFERENCE	ITEM	Status
Rotating Upper Structure (continued)		
O-1926.1412 (f)(2)(iv)	118. Main Hoist – Clutches / Brakes	✓
O-1926.1412 (d)(1)(vi)	119. Main Hoist – Rope Spooling	✓
O-1926.1413 (a)(4)(i)(B)	120. Main Hoist – Minimum (2) rope wraps	✓
O-1926.1412 (f)(2)(iv)	121. Aux. Hoist – Clutches / Brakes	✓
O-1926.1412 (d)(1)(vi)	122. Aux. Hoist – Rope Spooling	✓
O-1926.1413 (a)(4)(i)(B)	123. Aux. Hoist – Minimum (2) rope wraps	✓
O-1926.1412 (f)(2)(iv)	124. Boom Hoist – Clutches / Brakes	✓
O-1926.1412 (d)(1)(vi)	125. Boom Hoist – Rope Spooling	✓
O-1926.1413 (a)(4)(i)(B)	126. Boom Hoist – Minimum (2) rope wraps	✓
O-1926.1412 (f)(2)(iv)	127. Boom Hoist – Clutch / Pawls / Ratchets	✓
O-1926.1412 (f)(2)(x)	128. Swing System / Assembly	✓
O-1926.1412 (f)(2)(x)	129. Hydraulic Motors / Valves / Lines / Etc.	✓
O-1926.1412 (f)(2)(ii)	130. Drums / Flanges	✓
O-1926.1412 (f)(2)(iv)	131. Clutch / Brake Protection	✓
O-1926.1412 (f)(2)(iii)	132. Torque Converter	✓
O-1926.1423 (c)(3)(i)	133. Anti-Skid Surface	✓
O-1926.1412 (f)(2)(xii)	134. Steps / Hand Holds / Platforms	✓
O-1926.1412 (f)(2)(x)(xii)	135. Access to Cab and Roof	✓
O-1926.1412 (f)(2)(x)(xii)	136. Air System – Compressor / Lines / Etc.	✓
O-1926.1412 (f)(2)(i)(B)	137. Counterweight Mounting	✓
O-1926.1433 (d)(5)	138. Counterweight Warning Sign	✓
O-1926.1407 (g)	139. Electrocutation Warning Sign (Outside)	✓
	140. Other	✓
Boom Support System		
O-1926.1412 (f)(2)(i)	141. Gantry / Mast	✓
O-1926.1415 (a)(2)	142. Boom Stops	✓
O-1926.1412 (f)(2)(x)(i)(B)	143. Inner Bail	✓
O-1926.1412 (f)(2)(x)(i)(B)	144. Outer Bail / Equalizer	✓
O-1926.1412 (f)(2)(i)	145. Sheave(s)	✓
O-1926.1412 (d)(1)(vi)	146. Boom Hoist Reeling	✓
	147. Other	✓
Boom		
O-1926.1412 (f)(2)(xvii)	148. Boom Section Identification	✓
O-1926.1404 (m)	149. Boom Section Sequence	✓
O-1926.1404 (m)	150. Boom Section Alignment	✓
O-1926.1412 (f)(2)(xvii)	151. Warning Decals	✓
O-1926.1412 (f)(2)(i)	152. Spreader Bar	✓
O-1926.1412 (f)(2)(i)&(iii)	153. Sheave(s)	✓
O-1926.1413 (a)(2)(i)(D)	154. Hoist Line Dead End	✓
O-1926.1412 (a)(2)(i)(D)	155. Wire Rope Retainer(s)	✓
O-1926.1412 (f)(2)(ii)	156. Boom Foot Pins / Keepers	✓
O-1926.1412 (f)(2)(i)	157. Boom Head Section	✓
O-1926.1412 (f)(2)(i)	158. Auxiliary Boom Head	✓
O-1926.1412 (f)(2)(i)	159. Lattice Members	✓
O-1926.1412 (f)(2)(i)	160. Cord Members	✓
O-1926.1412 (f)(2)(i)	161. End Connections / Pins	✓
	162. Other	✓
Jib		
O-1926.1415 (a)(3)	163. Stops	✓
O-1926.1412 (f)(2)(i)	164. Sheave(s)	✓
O-1926.1413 (a)(2)(i)(D)	165. Wire Rope Retainer(s)	✓
O-1926.1412 (f)(2)(i)	166. Lattice Members	✓
O-1926.1412 (f)(2)(i)	167. Cord Members	✓
O-1926.1412 (f)(2)(i)	168. End Connections / Pins	✓
O-1926.1416 (d)(2)	169. Luffing Jib Stops	✓

References: O = OSHA 1926 Subpart CC, 1926.601, 1910.180 A = PCSA #4, ASME B30.5, B30.10
Status: ✓ = Satisfactory X = Safety Hazard M = Monitor R = Recommendation N/A = Not Applicable

O-1926.1413	170.	Wire Rope										
Rope Application	Type	Size	Construct.	Grade	Core	Rope Damage	Measured Wear	Broken Wires	Lubrication	End Connections	Status	
Main Hoist Drum	35x7	26mm	Steel	FIPS	Steel	Ø	26.35	Ø	OK	OK	OK	
Aux. Hoist Drum	35x7	26mm	Steel	FIPS	Steel	Ø	26.35	Ø	OK	OK	OK	
Boom Hoist Drum	6x26	19mm	Steel	FIPS	Steel	Ø	19.91	Ø	OK	OK	OK	
Boom Pendants	6x26	35mm	Steel	FIPS	Steel	Ø	35.40	Ø	OK	OK	OK	
Jib Pendants	6x26	19mm	Steel	FIPS	Steel	Ø	19.48	Ø	OK	OK	OK	
Other												

Main Load Block & Hook		
Manufacturer: <u>Poppe Block</u>	S/N: <u>RX3328</u>	
Rated Capacity: <u>151 Tons</u>		
Block Weight: <u>3308 lbs.</u>		
Hook Tram Meas: <u>OK</u>		
REFERENCE	ITEM	Status
O-1926.1433 (d)(3)	171. Capacity Marking	✓
O-1926.1433 (d)(3)	172. Weight Marking	✓
O-1926.1412 (f)(2)(ii)	173. Sheave(s)	✓
O-1926.1433 (d)(4)	174. Safety Latches	✓
A-B30.10-2.10.5 (f)	175. 0° Hook Bend or Twist	✓
A-B30.10-2.10.5 (g)	176. 5% Hook Opening or 1/4" Max.	✓
A-B30.10-2.10.5 (e)	177. 10% Hook Wear Max.	✓
O-1926.1412 (f)(2)(iii)	178. Swivel	✓
O-1926.1412 (f)(2)(iii)	179. Bearing	✓
O-1926.1413 (a)(2)(i)(D)	180. Wedge Socket / End Fitting	✓
O-1926.1412 (d)(1)(iv)	181. Reeving	✓
A-B30.5-2.1.3 (a)(i)	182. NDT Results:	15/19
	183. Other	

Overhaul Ball & Hook		
Manufacturer: <u>Johnson</u>	S/N: <u>19-3127</u>	
Rated Capacity: <u>15 Tons</u>		
Block Weight: <u>757 lbs.</u>		
Hook Tram Meas: <u>OK</u>		
REFERENCE	ITEM	Status
O-1926.1433 (d)(3)	184. Capacity Marking	✓
O-1926.1433 (d)(3)	185. Weight Marking	✓
O-1926.1433 (d)(4)	186. Safety Latches	✓
A-B30.10-2.10.5 (f)	187. 0° Hook Bend or Twist	✓
A-B30.10-2.10.5 (g)	188. 5% Hook Opening or 1/4" Max.	✓
A-B30.10-2.10.5 (e)	189. 10% Hook Wear Max.	✓
O-1926.1412 (f)(2)(iii)	190. Swivel	✓
O-1926.1412 (f)(2)(iii)	191. Bearing	✓
O-1926.1413 (a)(2)(i)(D)	192. Wedge Socket / End Fitting	✓
A-B30.5-2.1.3 (a)(i)	193. NDT Results:	15/19
	194. Other	

No-Load Operational Test		
REFERENCE	ITEM	Status
O-1926.1412 (f)(3)	195. No-Load Operational Test	OK

Caution: Operation of cranes by Inspectors is limited to those crane functions necessary to accomplish the inspection. Inspectors must meet operator trainee qualification requirements in ASME B30.5 and only operated under the direct supervision of a certified operator.

A-B30.5-2.2.2		196.		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: No Load Test Performed

Caution: Load Test shall be conducted by a qualified person. Operators must be certified through a nationally accredited and OSHA recognized certification program, such as CIC.

