



Inspection

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Telescoping Boom Crane

Completed by: Jonathan Tawney on 08/11/2026

Location: Richie Brothers (Ft Worth Yard)

Serial #: 233495

Status: In Service

Manufacturer: Grove
Model: RT600E
Capacity: 50 Tons
Length/Lift: 105' Main Boom
Hook Type: Load Block & Hook

Priorities Found: ● 9 - High ● 2 - Medium ● 141 - Good

Hours and Miles



1. Hours 7795 Hours P1

Historical Records

- | | |
|--|--------------------|
| ● 2. Monthly Inspection | (SAT) Satisfactory |
| ● 3. Record of Maintenance | (SAT) Satisfactory |
| ● 4. Documentation of Annual / Comprehensive Inspection | (SAT) Satisfactory |
| ● 5. Equipment Modification(s) or additions | (SAT) Satisfactory |
| ● 6. Record of Load Test | (SAT) Satisfactory |

General

- | | |
|---|--------------------|
| ● 7. External Lights | (SAT) Satisfactory |
| ● 8. Housekeeping | (SAT) Satisfactory |
| ● 9. Safety and Warning Labels | (SAT) Satisfactory |
| ● 10. Hand Signal Chart | (SAT) Satisfactory |

Driver's Cab and Station



- | | | |
|---|--------------------|-----|
| ● 11. Service Brake | (SAT) Satisfactory | |
| ● 12. Emergency Brake | (SAT) Satisfactory | |
| ● 13. Parking Brake | (SAT) Satisfactory | |
| ● 14. External Lights (Headlights, Taillights, Brake Lights) | (SAT) Satisfactory | P14 |
| ● 15. Audible Warning Device | (SAT) Satisfactory | |
| ● 16. Audible Reverse Signal Alarm | (SAT) Satisfactory | |
| ● 17. Windows / Mirrors | (SAT) Satisfactory | |
| ● 18. Windshield Wipers | (SAT) Satisfactory | |
| ● 19. Windshield Defroster | (SAT) Satisfactory | |
| ● 20. Seatbelts | (SAT) Satisfactory | |
| ● 21. Tires | (SAT) Satisfactory | P21 |
| ● 22. Seat | (SAT) Satisfactory | |
| ● 23. Steering | (SAT) Satisfactory | |

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●	24. Housekeeping	(SAT) Satisfactory	
●	25. Fire Extinguisher	(SAT) Satisfactory	
Lower Carrier Power Plant			
●	26. Engine Performance	(SAT) Satisfactory	P26
●	27. Exhaust System	(SAT) Satisfactory	
●	28. Belts	(SAT) Satisfactory	
●	29. Rotating and Reciprocating Parts	(SAT) Satisfactory	
Carrier			
●	30. Transmission	(SAT) Satisfactory	
●	31. Drive Line	(SAT) Satisfactory	P31
●	32. Tires	(SAT) Satisfactory	
●	33. Tire Air Pressure	(SAT) Satisfactory	
●	34. Main Frame Members	(SAT) Satisfactory	
●	35. Hydraulic Hoses, Fittings, Tubes	(SAT) Satisfactory	P35
●	36. Hydraulic Fluid Level	(SAT) Satisfactory	
●	37. Hoses / Tubing / Fittings .	(DEF) Deficiency	P37
■	<i>Small oil leak on undercarriage</i>		
●	38. Slip Resistant Walking surface	(SAT) Satisfactory	
●	39. Axle Lockout	(SAT) Satisfactory	
●	40. Audible Reverse Signal Alarm	(SAT) Satisfactory	
Outriggers			
●	41. Boxes & Beams	(SAT) Satisfactory	
●	42. Hydraulic Cylinders	(SAT) Satisfactory	P42
●	43. Pad / Float	(DEF) Deficiency	P43
■	<i>Float needs new keeper and spring</i>		
●	44. Hoses / Tubing / Fittings	(DEF) Deficiency	P44
■	<i>Hydraulic leak on left and right rear out riggers</i>		
●	45. Holding Valves	(SAT) Satisfactory	
●	46. Caution / Warning Signs	(SAT) Satisfactory	
Operator's Station			
●	47. Windows	(SAT) Satisfactory	
●	48. Windshield Wipers	(SAT) Satisfactory	
●	49. Cab Door Restraint	(SAT) Satisfactory	
●	50. Cab Access	(SAT) Satisfactory	
●	51. Steps / Ladders / Handrails	(SAT) Satisfactory	
●	52. Anti-Skid Stepping Surfaces	(SAT) Satisfactory	
●	53. Load Chart	(DEF) Deficiency	
■	<i>No load chart in the crane</i>		
●	54. Fire Extinguisher	(SAT) Satisfactory	P54
●	55. Operator's Manual	(DEF) Deficiency	
■	<i>No owners manual in the crane</i>		
●	56. Seat	(SAT) Satisfactory	
●	57. Seatbelts	(SAT) Satisfactory	
●	58. Electrocution Warning Sign(s)	(SAT) Satisfactory	
●	59. Level	(REC) Recommendation	
■	<i>Level in cab was non functional but level was provided on crane deck</i>		
●	60. Horn	(REC) Recommendation	
■	<i>No horn</i>		

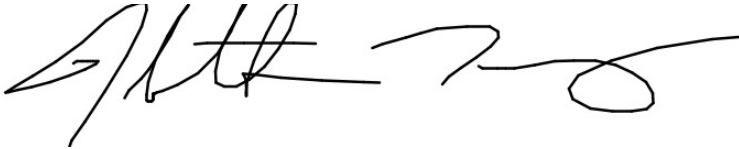
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61.	Load Indicator	(SAT) Satisfactory	
62.	Controls Identified	(SAT) Satisfactory	P62
63.	Control Mechanisms	(SAT) Satisfactory	
64.	Power Plant Controls	(SAT) Satisfactory	
65.	Brake and Clutch	(SAT) Satisfactory	
66.	Travel Brakes	(SAT) Satisfactory	
67.	Travel Controls	(SAT) Satisfactory	
68.	Travel Mechanism	(SAT) Satisfactory	
69.	Travel Locks	(SAT) Satisfactory	
Load Chart			
70.	Ground Level, Remotely Controlled	(DEF) Deficiency	
71.	Per Configuration	(DEF) Deficiency	
72.	Visible from Fixed Operator's Station	(DEF) Deficiency	
	No load charts in the cab		
73.	Durable / Legible/ Secured	(DEF) Deficiency	
Safety Devices / Operational Aids			
74.	Boom Angle Indicator	(SAT) Satisfactory	
75.	Boom Length Indicator	(SAT) Satisfactory	
76.	Main Drum Rotation Indicator	(SAT) Satisfactory	
77.	Auxiliary Drum Rotation Indicator	(SAT) Satisfactory	
78.	Load Moment Indicator	(SAT) Satisfactory	P78
79.	Load Weight Indicator	(SAT) Satisfactory	
80.	Radius Indicator	(SAT) Satisfactory	
81.	Level Indicator	(SAT) Satisfactory	
82.	Two-Block System	(SAT) Satisfactory	P82
83.	Overload Prevention Device	(SAT) Satisfactory	
Upper Power Plant			
84.	Performance	(SAT) Satisfactory	
85.	Exhaust System/Guards & Insulators	(SAT) Satisfactory	
86.	Hoses	(SAT) Satisfactory	
87.	Reciprocating and rotating parts	(SAT) Satisfactory	
Rotating Upper Structure			
88.	Turntable / Bearing	(SAT) Satisfactory	
89.	Turntable / Rollers	(SAT) Satisfactory	
90.	Counterweight Frame	(SAT) Satisfactory	
91.	Ring and Pinion Gear	(SAT) Satisfactory	
92.	Hydraulic and Pneumatic Pumps	(SAT) Satisfactory	
93.	Hydraulic Tubes, Fitting, and Hoses	(SAT) Satisfactory	P93
94.	Hydraulic Pressure	(SAT) Satisfactory	
95.	Electrical Wiring	(SAT) Satisfactory	
96.	Main Hoist - Brakes and Clutch System	(SAT) Satisfactory	
97.	Main Hoist - Wire Rope Reeving	(SAT) Satisfactory	
98.	Main Hoist - Meets 2 rope wrap minimum	(SAT) Satisfactory	
99.	Auxiliary Hoist - Brakes and Clutch System	(SAT) Satisfactory	
100.	Auxiliary Hoist - Wire Rope Reeving	(SAT) Satisfactory	
101.	Auxiliary Hoist - Meets 2 rope wrap minimum	(SAT) Satisfactory	
102.	Swing System / Assembly	(SAT) Satisfactory	
103.	Counterweight Mounting	(SAT) Satisfactory	

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● 104.	Counterweight Posted Warnings	(SAT) Satisfactory	
● 105.	Electrocution Posted Warnings	(SAT) Satisfactory	
Main Boom			
● 111.	Lift Cylinder(s)	(SAT) Satisfactory	
● 112.	Telescoping Boom Cylinder(s)	(SAT) Satisfactory	
● 113.	Hydraulic Hoses, Tubes, and Fittings	(SAT) Satisfactory	P113
● 114.	Holding Device	(SAT) Satisfactory	
● 115.	Boom Sections Alignment	(SAT) Satisfactory	
● 116.	Wear Pads	(SAT) Satisfactory	
● 117.	Sheaves	(SAT) Satisfactory	
● 118.	Hoist Line Dead End	(SAT) Satisfactory	
● 119.	Boom Hinge Pin	(SAT) Satisfactory	
● 120.	Boom Head Section	(SAT) Satisfactory	
● 121.	Auxiliary Boom Head	(SAT) Satisfactory	
● 122.	Structure	(SAT) Satisfactory	
Jib			
● 123.	Sheaves	(SAT) Satisfactory	P123
● 124.	Wire Rope Retainers	(SAT) Satisfactory	
● 125.	End Connections and Pins	(SAT) Satisfactory	
● 126.	Wire Rope Retainers.	(SAT) Satisfactory	
Manual / Fly Section			
● 127.	Alignment	(SAT) Satisfactory	
● 128.	Locking Device	(SAT) Satisfactory	
● 129.	Structure	(SAT) Satisfactory	P129
Main Drum Wire Rope			
● 130.	Rope Damage	(SAT) Satisfactory	
	Minimal wire rope inspection due to other issues as noted		
131.	Diameter and wear		P132
	Size	Actual diameter measurement	
	19mm	19mm	
● 132.	Lubrication	(SAT) Satisfactory	
	Could use lube but normal for a crane not in service		
● 133.	End Connectors	(SAT) Satisfactory	
Auxiliary drum wire rope			
● 150.	Rope Damage	(SAT) Satisfactory	P150
151.	Diameter and wear		P151
	Size	Actual diameter measurement	
	19mm	19mm	
	Minimal wire rope inspection due to other issues as noted		
● 152.	Broken Wires	(SAT) Satisfactory	
● 153.	Lubrication.	(SAT) Satisfactory	
● 154.	End Connectors	(SAT) Satisfactory	
Load Block & Hook			
● 155.	Capacity Marking	(SAT) Satisfactory	P155
● 156.	Weight Marking	(SAT) Satisfactory	
● 157.	Sheave(s)	(SAT) Satisfactory	P157
● 158.	Safety Latch(es)	(SAT) Satisfactory	
● 159.	0° Hook Bend or Twist	(SAT) Satisfactory	

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● 160.	5% Hook Opening or 1/4" Max	(SAT) Satisfactory	
● 161.	10% Hook Wear Max	(SAT) Satisfactory	
● 162.	Bearing	(SAT) Satisfactory	
● 163.	Wedge Socket / End Fitting	(SAT) Satisfactory	
● 164.	Reeving	(SAT) Satisfactory	
● 165.	Non-Destructive Testing	(P) Pass	P165
Overhaul Ball & Hook			
● 166.	Capacity Marking	(SAT) Satisfactory	P166
● 167.	Weight Marking	(SAT) Satisfactory	
● 168.	Safety Latches	(SAT) Satisfactory	
● 169.	0° Hook Bend or Twist	(SAT) Satisfactory	
● 170.	5% Hook Opening or 1/4" Max	(SAT) Satisfactory	
● 171.	10% Hook Wear Max	(SAT) Satisfactory	
● 172.	Swivel / Bearing	(SAT) Satisfactory	
● 173.	Wedge Socket / End Fitting	(SAT) Satisfactory	P173
● 174.	Non Destructive Test (NDT)	(P) Pass	P174
No-Load Operational Test			
● 175.	No-Load Operational Test	(SAT) Satisfactory	
Verification and Completion			
176.	Inspector Name and Signature	Johnathan Tawney	
			
177.	Date of Inspection	08/11/2026	
● 178.	Certificate Issued	(Y) Yes	P178



P1.1



P14.2



P21.3



P26.4



P31.5



P31.6



P31.7



P35.8



P37.9



P42.10



P42.11



P42.12



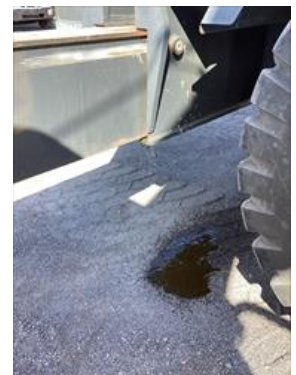
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P54.18



P62.19



P62.20



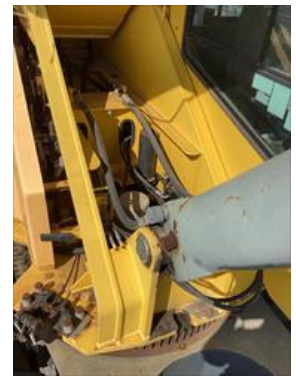
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P93.23



P113.24



P123.25



P129.26



P132.27



P132.28



P150.29



P151.30



P155.31



P157.32



P165.33



P165.34



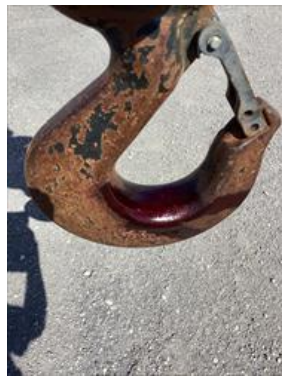
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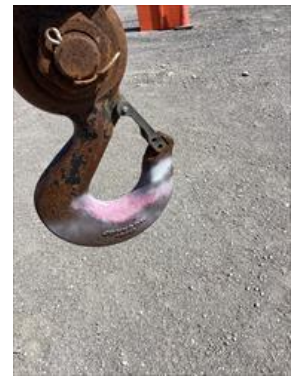
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P174.38



P174.39



P174.40



P178.41