



# My Inspection Company

5432 Bent Pine Rd.

Athens, AL 35614

256-777-4002

Hydraulic Telescopic Crane



Date Wed 4/29/2009

<b>Manufacturer:</b> GROVE		<b>Model:</b> RT-530E		<b>Serial No:</b> 220262	<b>Unit No:</b> N/A
<b>HrsUp:</b> 5058	<b>HrsLo:</b> p90	<b>Inspector:</b> Greg Beam		<b>Certification:</b> 08-6333	<b>No:</b> T610001898
<b>Location:</b> At their shop in Decatur, AL byt			<b>Owner/User:</b> ER's company		

KEY: OK - Satisfactory X - Unsatisfactory, recommend repair or replacement N/A - Not Applicable

(1) General Appearance	Key	Remarks
A. Paint	OK	Solley Grove 220262
B. Sheet Metal	OK	Take #2
C. Walkway, Ladder, Steps	OK	Test #3
D. House Keeping	OK	

(2) Safety Items		
A. Load charts (are they readable)	X	See Deficiencies Report Item No 2-A
B. Boom angle indicators	OK	
C. A2B System (TEST)	OK	
D. LMI System (TEST)	OK	
E. Crane controls (are they labeled)	OK	
F. Neutral start switch	OK	
G. Back up alarm	OK	
H. Operation of horn	OK	
I. Lights	OK	
J. Safety decals	OK	
K. Fire extinguishers	X	See Deficiencies Report Item No 2-K
L. Machinery guards	OK	
M. Condition & operation of A2B reel	OK	

(3) Power Plants		
A. Condition of fan	OK	
B. Condition of radiator	OK	
C. Belts & Hoses	OK	
D. Filters: oil, fuel, air	OK	
E. Engine oil level	OK	
F. Mounting of engine (motor mounts)	OK	
G. Exhaust system (check all connections & muffler)	OK	
H. Leaks (water, oil, fuel)	OK	

(4) Air Compressor		
A. Safety valve	N/A	
B. Belts	N/A	
C. Filters (connected to air cleaner)	N/A	
D. General condition	N/A	
E. Pressure check (gauge in cab)	N/A	
F. Moisture ejectors	N/A	

(5) Main Hoist Winch		
A. Condition of hoist brake & brake control system	OK	

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(5) Main Hoist Winch (Continued)		Key	Remarks
B. Condition of hoist two speed & control system		X	See Deficiencies Report Item No 5-B
C. Condition of hoist hydraulic motor or motors (leaks)		OK	
D. Operation of Hoist		OK	
E. Hoist hydraulic circuit pressure		OK	
F. Check for abnormal noises, look for leaks, look at cable spooling		OK	
G. Check drum feeler mounting & operation		OK	
H. Condition & operation of cable follower		X	See Deficiencies Report Item No 5-H
I. Condition & function of main hoist paw		N/A	
(6) Auxiliary Hoist Winch			
A. Condition of hoist brake & brake control system		N/A	
B. Condition of hoist two speed & control system		N/A	
C. Condition of hoist hydraulic motor or motors (leaks)		N/A	
D. Operation of Hoist		N/A	
E. Hoist hydraulic circuit pressure		N/A	
F. Check for abnormal noises, look for leaks, look at cable spooling		N/A	
G. Check drum feeler mounting & operation		N/A	
H. Condition & operation of cable follower		N/A	
I. Condition & function of auxiliary main hoist paw		N/A	
(7) Swing			
A. Condition of house lock		OK	
B. Condition of swing brake		OK	
C. Control linkage & pins		OK	
D. Condition of swing hydraulic motor		OK	
E. Condition of swing reduction gear box & mounting		X	See Deficiencies Report Item No 7-E
F. Condition of rotex bearing		OK	
G. Randomly check bearing bolts for torque		OK	
H. Check condition of pinion gear & rotex gear		OK	
I. Check lubrication of rotex bearing & pinion gear		OK	
J. Condition of 360 degree swing lock		X	See Deficiencies Report Item No 7-J
(8) Swivel Area (Air, Electrical, HYD.)			
A. Condition of each swivel		OK	
B. Mounting of each swivel		OK	
C. Are all lines routed properly		OK	
D. Are all lines tight and not leaking		X	See Deficiencies Report Item No 8-D
E. Are electrical connection tight		OK	
F. Are any wire exposed or rubbing		OK	
(9) Boom & Jib			
A. Pivot pins & bushings		OK	
B. Boom pinning sections		N/A	
C. Sheaves & guards		OK	
D. Cable guide rollers		OK	
E. Cable retaining pins		X	See Deficiencies Report Item No 9-E
F. Boom sections (Bends, Bows, Kinks, Ect.)		OK	

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(9) Boom & Jib (Continued)	Key	Remarks
G. Upper frame work that holds boom	OK	
H. Boom extension cylinders & holding valves	OK	
I. Wear pads inside & out including cable rollers or cable wear pads on top of boom.	OK	
J. Boom cylinder & holding valve	OK	
K. Check boom leaking in / down (Do brakes hold the boom, friction crane.)	OK	
L. Counterweight bolts & pins	OK	
M. Condition of jib	OK	
N. Condition of luffing jib	N/A	
O. Condition of lacing, cords, & welds	OK	
P. Boom alignment	OK	
Q. Auxiliary boom head	N/A	
R. Hydraulic leaks inside boom	OK	
S. Condition of jib pins	OK	
T. Condition & function of boom kick out switch	OK	
U. Condition of counter weight cylinders (leaking)	N/A	
V. Condition & operation of hydraulic hose reel at back of boom	N/A	
W. Condition of cable/chains inside of boom (visual check)	OK	
X. Condition & operation of dead section	N/A	
(10) Outrigger System		
A. Condition of outrigger boxes and beams	OK	
B. Condition of pins, bushings, bolts, and welds	OK	
C. Condition of outrigger cylinders & holding valves	OK	
D. Condition of all stabilizer pads & floats	X	See Deficiencies Report Item No 10-D
E. Condition of all stabilizer cylinders & holding valves	OK	
F. Condition of outrigger boxes where beams slide in and out	OK	
G. Half outrigger lock area	OK	
(11) Air, Hydraulic, and Electrical Control Systems		
A. Main hydraulic & circuit system pressures (test optional)	OK	
B. Condition of air & hydraulic valves (functional)	OK	
C. Condition of electrical switches & solenoids (functional)	OK	
D. Condition of electrical wiring & wiring harness (visual)	OK	
E. Condition of all air & hydraulic hoses & piping (visual)	OK	
F. Condition of hydraulic pumps	OK	
(12) RT & Truck Crane Carrier & Cab(s)		
A. Brakes (inspect)	OK	
B. Condition of parking brake	X	See Deficiencies Report Item No 12-B
C. Condition of all steering linkage, pins, bushings, and hydraulic cylinders, tie rods, and ends	OK	
D. Condition of hydraulic pump, mounting, leaks	OK	
E. Condition of tires, wheels, and lug nuts	OK	
F. Condition of differential and drive shafts and "U" joints	OK	
G. Condition of carrier main frame (visible cracks)	OK	

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(12) RT & Truck Crane Carrier & Cab(s) (Continued)	Key	Remarks
H. Condition of axle mountings and suspension	OK	
I. Condition of hydraulic suspension, leaks	OK	
J. Level of hydraulic fluid	X	See Deficiencies Report Item No 12-J
K. Condition of frame support blocks (Boom Trucks)	N/A	
L. Condition of boom rest	N/A	
M. Abnormal noises & vibrations	OK	
N. Condition of tie off point at front of crane for block/ball to latch for transportation purposes	OK	
O. Air leaks	N/A	
P. Glass	OK	
Q. Condition of bubble level	OK	
R. Windshield wipers	X	See Deficiencies Report Item No 12-R
S. Condition of doors, latch, open & close	X	See Deficiencies Report Item No 12-S
T. Condition of mirrors, side mirrors, spot mirrors	X	See Deficiencies Report Item No 12-T
U. Seat mounting	X	See Deficiencies Report Item No 12-U
V. Seat belts	OK	
W. Air pressure warning device	N/A	
X. Gauges in cab (are they working)	OK	
Y. Control Identified	OK	
Z. Condition of grab rails & steps	OK	
AA. Adjustment of clutch	N/A	
AB. Condition & operation of throttle cables at right & left stations (boom trucks)	OK	
AC. Condition & operation of arm rest switch	OK	
AD. Condition & operation of cab fans	OK	
<b>(13) Lubrication</b>		
A. Does machine appear to be receiving adequate service and lubrication	OK	
B. Is proper oil level being maintained on all reservoirs and gear cases	OK	
<b>(14) Miscellaneous</b>		
A.	N/A	
B.	N/A	
C.	N/A	
<b>(15) Wire Rope Main Hoist</b>		
A. Kinks or Birdcaging	OK	
B. Correct Length	OK	
C. Rope Damage	OK	
D. Measured Wear	.652"	
E. Type of wire rope	Rot Resistant	
F. Construction	12X16 Class	
G. Grade	EIP	
H. Core	IWRC	
I. Size	5/8"	

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(15) Wire Rope Main Hoist (Continued)		Key	Remarks
J. Status		In Service	
K. Size correct for this model of crane		OK	
L. Broken Wires		OK	
M. Lubrication		OK	
N. End Connections		OK	
O. Spooling condition		OK	
P. Socket wedge condition & installation		X	See Deficiencies Report Item No 15-P

(16) Wire Rope Auxiliary Hoist		
A. Kinks or Birdcaging	N/A	
B. Correct Length	N/A	
C. Rope Damage	N/A	
D. Measured Wear	N/A	
E. Type of wire rope	N/A	
F. Construction	N/A	
G. Grade	N/A	
H. Core	N/A	
I. Size	N/A	
J. Status	N/A	
K. Size correct for this model of crane	N/A	
L. Broken Wires	N/A	
M. Lubrication	N/A	
N. End Connections	N/A	
O. Spooling condition	N/A	
P. Socket wedge condition & installation	N/A	

(17) Record Keeping		
A. Load test reports	N/A	
B. Daily & monthly inspection reports	OK	
C. Repair records	OK	



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<b>HrsUp:</b> 5058	<b>HrsLo:</b> p90	<b>Inspector:</b> Greg Beam		<b>Certification:</b> 08-6333		<b>No:</b> T610001898	
<b>Location:</b> At their shop in Decatur, AL byt				<b>Owner/User:</b> ER's company			

KEY: OK - Satisfactory X - Unsatisfactory, recommend repair or replacement N/A - Not Applicable

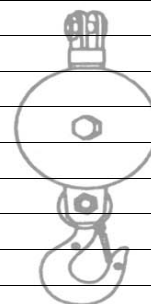
<b>Main Block Model:</b>	<b>Make:</b>	<b>Serial No:</b>	<b>Capacity:</b>	<b>Weight:</b>
ORJ3016RTB	JOHNSON 3 SHV	99-13548	30 TON	583 LBS.

(18) Main Block Component Identification		Key	Remarks
A. Throat Latch		X	See Deficiencies Report Item No 18-A
B. Capacity & Weight Labeled		OK	
C. Sheaves & Reeving		OK	
D. Spacers		OK	
E. Hook & Hook Shanks		OK	
F. Hook Swivel & Bearing		OK	
G. Total Weights (Mounting)		OK	
H. Hook Throat Measurement	6.055"		
I. 10° Hook Twist		OK	
J. 15% Throat Opening		OK	
K. 10% Hook Wear		OK	
Method used for Checking: Magnetic		Pass	Results of Magnetic Test: Pass



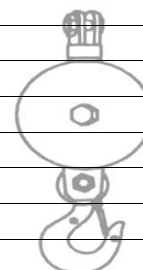
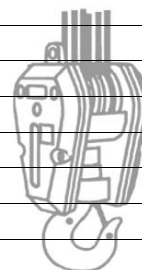
<b>Headache Ball Model:</b>	<b>Make:</b>	<b>Serial No:</b>	<b>Capacity:</b>	<b>Weight:</b>
N/A	N/A	N/A	N/A	N/A

(19) Headache Ball Component Identification		Key	Remarks
A. Throat Latch		N/A	
B. Capacity & Weight Labeled		N/A	
C. Hook & Hook Shanks		N/A	
D. Hook Swivel & Bearing		N/A	
E. Total Weights (Mounting)		X	See Deficiencies Report Item No 19-E
F. Hook Throat Measurement		N/A	
G. 10° Hook Twist		N/A	
H. 15% Throat Opening		N/A	
I. 10% Hook Wear		N/A	
Method used for Checking:		N/A	



<b>Auxiliary Model:</b>	<b>Make:</b>	<b>Serial No:</b>	<b>Capacity:</b>	<b>Weight:</b>
N/A	N/A	N/A	N/A	N/A

(20) Auxiliary Component Identification		Key	Remarks
A. Throat Latch		N/A	
B. Capacity & Weight Labeled		N/A	
C. Sheaves & Reeving		N/A	
D. Spacers		N/A	
E. Hook & Hook Shanks		N/A	
F. Hook Swivel & Bearing		N/A	
G. Total Weights (Mounting)		N/A	
H. Hook Throat Measurement		N/A	
I. 10° Hook Twist		N/A	
J. 15% Throat Opening		N/A	
K. 10% Hook Wear		N/A	
Method used for Checking:		N/A	





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<b>HrsUp</b> 5058	<b>HrsLo:</b> p90	<b>Inspector</b> Greg Beam		<b>Certification:</b> 08-6333	<b>No:</b> T610001898
<b>Location:</b> At their shop in Decatur, AL byt			<b>Owner/User:</b> ER's company		

<b>Model:</b>	<b>Make:</b>	<b>Serial No:</b>	<b>Capacity:</b>	<b>Weight:</b>
ORJ3016RTB	JOHNSON 3 SHV	99-13548	30 TON	583 LBS.

## Main Block

# MAGNETIC PARTICLE INSPECTION

**TECHNIQUE / PROCEDURE:** In accordance with ASME section V article 7 and VIP-MT-V1 Rev7

**ACCEPTANCE / REJECTION CRITERIA:** ASME B30.10

**EQUIPMENT USED FOR MAGNETIZATION:** Magnaflux Y-6 Hand-Yoke / Parker Hand Yoke

**MAGNETIZATION METHOD:** Continuous

**FERROMAGNETIC PARTICLES USED:** Gray

**COLOR:** Non-Fluorescent/Visible

**WET OR DRY:** Dry

**MAGNETIZATION CURRENT:** A/C

**TEMPERATURE OF ITEMS INSPECTED:** 75° F

**TYPE OF MATERIAL AND THICKNESS:** Carbon Steel – Various Thickness

**LIGHTING USED:** Droplight with 100 Watt Bulb and sunlight





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# My Inspection Company

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Inspection Deficiency Report



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Date Wed 4/29/2009

Note: Any deficiency noted by an asterisk (\*) should be corrected before the machine is returned to service and all other deficiencies should be corrected within 30 days from the date this form has been completed.

<b>Manufacturer:</b> GROVE		<b>Model:</b> RT-530E		<b>Serial No:</b> 220262		<b>Unit No:</b> N/A	
<b>HrsUp:</b> 5058		<b>HrsLo:</b> p90		<b>Inspector:</b> Greg Beam		<b>Certification:</b> 08-6333	
<b>No:</b> T610001898		<b>Location:</b> At their shop in Decatur, AL byt		<b>Owner/User:</b> ER's company			
Item No	Item Inspected (OSHA, PCSA, ANSI/ASME reference) Deficiency	Corrective Action	Date Corrected	Repaired By			
(2) Safety Items - A. Load charts (are they readable) (B30.5-1.1.3)							
2-A	The load charts have been ripped out of the crane, and must be reinstalled.						
(2) Safety Items - K. Fire extinguishers (1926.550(a)(14)(i))							
2-K	There is no fire extinguisher on the crane.						
(5) Main Hoist Winch - B. Condition of hoist two speed & control system							
5-B	The hoist 2 speed does not work at times.						
(5) Main Hoist Winch - H. Condition & operation of cable follower							
5-H	The cable follower is broken and is not working and must be repaired.						
(7) Swing - E. Condition of swing reduction gear box & mounting (B30.5-2.1.3.(a)(4))							
7-E	The upper will not swing, it acts like the gear box is locked up or the brake is sticking, it will have to be trouble shoot to see what the problem is .						
(7) Swing - J. Condition of 360 degree swing lock							
7-J	The 360 degree swing lock is not engaging the gear teeth and needs to be adjusted or replaced.						
(8) Swivel Area (Air, Electrical, HYD.) - D. Are all lines tight and not leaking							
8-D	There are some leaks coming off of the swivel that need to be fixed.						
(9) Boom & Jib - E. Cable retaining pins							
9-E	There is a cable retaining pin missing from the jib head.						
(10) Outrigger System - D. Condition of all stabilizer pads & floats (B30.5-1.9.3.(d))							
10-D	All 4 stabilizer pads are missing and must be replaced.						
(12) RT & Truck Crane Carrier & Cab(s) - B. Condition of parking brake (1926.601(b)(1))							
12-B	The parking brake does not work and must be repaired.						
(12) RT & Truck Crane Carrier & Cab(s) - J. Level of hydraulic fluid (PCSA#2 8.1.12.7)							
12-J	We had to put 50 gallons of fluid in the crane just to be able to get the boom scoped all the way out and up and it still needs about 25 gallons more fluid.						
(12) RT & Truck Crane Carrier & Cab(s) - R. Windshield wipers (1926.601(b)(2)(i)&(ii))							
12-R	Top windshield wiper has been removed from the crane and needs to be reinstalled.						
(12) RT & Truck Crane Carrier & Cab(s) - S. Condition of doors, latch, open & close (PCSA#2 8.1.11.2)							
12-S	The operators door is very hard to open after it has been shut, door needs to be adjusted.						
(12) RT & Truck Crane Carrier & Cab(s) - T. Condition of mirrors, side mirrors, spot mirrors (1926.601(b)(4))							
12-T	There are 2 spot mirrors that are missing and need to be replaced. (1 at the right front fender , and 1 at the main hoist.)						
(12) RT & Truck Crane Carrier & Cab(s) - U. Seat mounting (1926.601(b)(8))							
12-U	The seat adjustment lever is pulled out of the seat and must be repaired or replaced.						



# My Inspection Company

NO: T610001898

## Inspection Deficiency Report

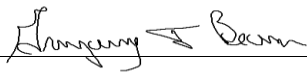
NO: T610001898

Item No	Item Inspected (OSHA, PCSA, ANSI/ASME reference) Deficiency	Corrective Action	Date Corrected	Repaired By
(15) Wire Rope Main Hoist - P. Socket wedge condition & installation				
15-P	The wedge is in the socket backwards and needs to be redone.			
(18) Main Block Component Identification - A. Throat Latch				
18-A	The throat latch spring is bad and must be replaced.			
(19) Headache Ball Component Identification - E. Total Weights (Mounting)				
19-E	There is no ball with the machine. It did not come back with the machine.			

18 Deficiencies were reviewed with the customer

Any unusual conditions observed during the inspection should be noted in the remarks section. Whenever possible, the crane operator should be present to start and operate the crane for various portions of the inspection. Summarize all required adjustments or repairs in the remarks section. This report is based on visual inspection only. This is not a take apart inspection, and is not intended in any way, to replace the daily & periodic maintenance that is recommended by the manufacture, or that may be dictated by job conditions or machine performance. The information on this report is as we see the condition of the machine/equipment today, and is not intended to be a guarantee for any use or purpose.

Inspector Signature: \_\_\_\_\_



Date: 4/29/2009

Customer Signature: \_\_\_\_\_

Date: 4/29/2009

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Pictures

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<b>Location:</b> At their shop in Decatur, AL byt				<b>Owner/User:</b> ER's company	



General picture of right side of crane.



Picture of right front side of the crane.

**My Inspection Company**  
Pictures



Picture of front crane.



Picture of left side of crane.



# My Inspection Company

## Pictures



Picture of boom scoped out and down.



Picture of boom scoped out and down (view from tip back towards the crane)



Picture of cable follower that is not working (froze up)



Picture of top view of boom out and down.



# My Inspection Company

## Pictures



Picture of pin missing from rooster sheave on the jib.



Picture of cable retaining pin that is missing from the tip of the jib.



Picture of boom alignment



Picture of cable that is pulled out from the front of the seat, this cable works the back rest forwards or backwards.