

5432 Bent Pine Rd. Athens, AL 35614 256-777-4002



Hydraulic Telescopic Crane

	Hydraulic Telescopi	c Crane		Date Wed 4/29/2009
Manufacturer: GROVE	Model: RT-530E	Seria	No: 220262	Unit No: N/A
HrsUp: 5058 HrsLo: p90	Inspector: Greg Beam	Certif	ication: 08-6333	No: T610001898
Location: At their shop in Decatur, A	L byt Owner/Use	r: ER's o	company	
KEY: OK - Satisfactory	X - Unsatisfactory, recommend	l repair o	r 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 Deficiences 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 Deficiences 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 connection	ns & 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		

A. Condition of hoist brake & brake control system

(5) Main Hoist Winch

OK

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(5) Main Hoist Winch (Continued)	Key	Remarks
B. Condition of hoist two speed & control system	X	See Deficiences 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 Deficiences 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	1	
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 Deficiences 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 Deficiences 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 Deficiences 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	
	1	See Deficiences Report Item No 9-E
E. Cable retaining pins F. Boom sections (Bends, Bows, Kinks, Ect.)	X	See Deficiences Report ficht No 7-E

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G. Upper frame work that holds boom H. Boom extension cylinders & holding valves OK Uverr pask inside & out including cable rollers or cable wear pads on top of boom. J. Boom cylinder & holding valve OK C. Check boom leaking in / down (Do brakes hold the boom, friction crane.) L. Counterweight bolts & pins OK M. Condition of jib O. Condition of Juffing jib O. Condition of laring, cords, & welds P. Boom alignment OK Q. Auxiliary boom head N/A R. Hydraulic leaks inside boom S. Condition of jib pins C. Condition of jib pins OK C. Condition of pins OK C. Condition of pins OK C. Condition & porration of hydraulic hose reel at back of boom N/A W. Condition & operation of hydraulic hose reel at back of boom N/A C. Condition of one peration of dead section N/A C. Condition of onlarger boxes and beams OK C. Condition of onlarger boxes and beams OK C. Condition of onlarger cylinders & holding valves F. Condition of all stabilizer pads & flodius E. Condition of all stabilizer pads & flodius B. Condition of our leacting subserved the subserved in the part of	(9) Boom & Jib (Continued)	Key	Remarks
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G. Half outrigger lock area OK (11) Air, Hydraulic, and Electrical Control Systems A. Main hydraulic & circuit system pressures (test optional) B. Condition of air & hydraulic valves (functional) C. Condition of electrical switches & solenoids (functional) D. Condition of electrical wiring & wiring harness (visual) E. Condition of all air & hydraulic hoses & piping (visual) F. Condition of hydraulic pumps OK	E. Condition of all stabilizer cylinders & holding valves	OK	
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E. Condition of all air & hydraulic hoses & piping (visual) F. Condition of hydraulic pumps OK OK	D. Condition of electrical wiring & wiring harness (visual)	OK	
		OK	
	F. Condition of hydraulic pumps	OK	
(12) RT & Truck Crane Carrier & Cab(s)	(12) RT & Truck Crane Carrier & Cab(s)	1	
A. Brakes (inspect) OK		OK	
B. Condition of parking brake X See Deficiences Report Item No 12-B	B. Condition of parking brake	X	See Deficiences 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	·	OK	
E. Condition of tires, wheels, and lug nuts	E. Condition of tires, wheels, and lug nuts	OK	
F. Condition of differential and drive shafts and "U" joints OK	F. Condition of differential and drive shafts and "U" joints	OK	
G. Condition of carrier main frame (visible cracks) OK	G. Condition of carrier main frame (visible cracks)	OK	

My Inspection Company Hydraulic Telescopic Crane

(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 Deficiences 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 Deficiences Report Item No 12-R
S. Condition of doors, latch, open & close	X	See Deficiences Report Item No 12-S
T. Condition of mirrors, side mirrors, spot mirrors	X	See Deficiences Report Item No 12-T
U. Seat mounting	X	See Deficiences 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	
(13) Lubrication		
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	
(14) Miscellaneous		
A.	N/A	
B.	N/A	
C.	N/A	
(15) Wire Rope Main Hoist		
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"	

My Inspection Company Hydraulic Telescopic Crane

Trydraune Telescopie Crane				
(15) Wire Rope Main Hoist (Continued)	Key	Remarks		
J. Status	In			
	Servivce			
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 Deficiences 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			



5432 Bent Pine Rd. Athens, AL 35614 256-777-4002





Date Wed 4/29/2009

Manufacturer: GR	OVE	Model: RT-530E	Serial No: 220262	Unit No: N/A
HrsUp: 5058	HrsLo: p90	Inspector: Greg Beam	Certification: 08-6333	No: T610001898
Location: At their	shon in Decatur A	byt Owner/I	Isar: FR's company	•

HrsUp: 5058	HrsLo: p	90 Inspector: G	Greg Beam	Certification	n: 08-6333	No: T610001898
Location: At their	shop in Deca	tur, AL byt	Owne	er/User: ER's compar	ny	
KEY:	OK - Satisfa	actory X - U	Jnsatisfactory	, recommend repair or r	replacement	N/A - Not Applicable
Main Block M	Model:	Make:		Serial No:	Capacity:	Weight:
ORJ3016R	ТВ	JOHNSON 3	SHV	99-13548	30 TON	583 LBS.
18) Main Block Com	nponent Identif	rication	Key	Remarks		
A. Throat Latch			X	See Deficiences Report Item	n No 18-A	
B. Capacity & Weight	Labeled		OK		111	11
C. Sheaves & Reeving	7		OK		a	Ш
D. Spacers			OK			Million
E. Hook & Hook Shar	ıks		OK		000	
F. Hook Swivel & Bea	aring		OK		/ m//	
G. Total Weights (Mo	unting)		OK		3 0]
H. Hook Throat Meas	urement		6.055"		\U / //	寸///
I. 10° Hook Twist			OK		7.	7
J. 15% Throat Openin	g		OK		((J.
K. 10% Hook Wear			OK			
Method used for Chec	king: Magnetic		Pass	Results of Magnetic T	est: Pass	
Headache Ball	Model:	Make:		Serial No:	Capacity:	Weight:
N/A		N/A		N/A	N/A	N/A
19) Headache Ball C	omponent Ide	ntification	Key	Remarks		
A. Throat Latch			N/A			
B. Capacity & Weight	Labeled		N/A		6	
C. Hook & Hook Shar	nks		N/A		21	1
D. Hook Swivel & Be	aring		N/A			
E. Total Weights (Mo	unting)		X	See Deficiences Report Item	n No 19-E)
F. Hook Throat Measu	urement		N/A			
G. 10° Hook Twist			N/A		10	T
H. 15% Throat Openin	ng		N/A			X
I. 10% Hook Wear			N/A		(() 4
Method used for Ch	necking:		N/A			
Auxiliary M	odel:	Make:		Serial No:	Capacity:	Weight:
N/A		N/A		N/A	N/A	N/A
20) Auxiliary Compo	onent Identific	ation	Key	Remarks		
A. Throat Latch			N/A			
B. Capacity & Weight			N/A			
C. Sheaves & Reeving	5		N/A			
D. Spacers			N/A		Hill	49
E. Hook & Hook Shar	nks		N/A		all	PILI
F. Hook Swivel & Bea	aring		N/A			
G. Total Weights (Mo	unting)		N/A			
H. Hook Throat Meas	urement		N/A		116/15	
I. 10° Hook Twist			N/A		W III	(0)
J. 15% Throat Openin	g		N/A		7.00	(2/a
K. 10% Hook Wear			N/A			
B. Capacity & Weight C. Sheaves & Reeving D. Spacers E. Hook & Hook Shar F. Hook Swivel & Ber G. Total Weights (Mo H. Hook Throat Meas I. 10° Hook Twist J. 15% Throat Openin	nks aring unting) urement		N/A			

Method used for Checking:

N/A



5432 Bent Pine Rd. Athens, AL 35614 256-777-4002



Date Wed 4/29/2009

Hydraulic Telescor	oic Crane
II) GIGGIE	ore Cruire

wanutad	cturer: G	ROVE		Model: RT-530E	Serial No: 220262	Unit No: N/A	
HrsUp	5058	HrsLo:	p90	Inspector Greg Beam	Certification: 08-6333	No: T610001898	

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

Model:	Make:	Serial No:	Capacity:	Weight:
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





5432 Bent Pine Rd. Athens, AL 35614 256-777-4002 Inspection Deficiency Report



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.

Location: At their shop in Decatur, AL byt Owner/User: ER's company Item Inspected (OSHA, PCSA, ANSI/ASME reference) Corrective Action (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.	lo: T6100018	
Item Inspected (OSHA, PCSA, ANSI/ASME reference) Corrective Deficiency Deficiency Action	10: 10100016	98
Item No Deficiency		
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(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))		
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.		

NO: T610001898

Inspection Deficiency Report

Item No	Item Inspected (OSHA, PCSA, ANSI/ASME reference) Deficiency	Corrective Action	Date Corrected	Repaired By
(15) Wire	e Rope Main Hoist - P. Socket wedge condition & installation			
15-P	The wedge is in the socket backwards and needs to be redone.			
(18) Mai	n Block Component Identification - A. Throat Latch			
18-A	The throat latch spring is bad and must be replaced.			
(19) Hea	dache 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:	Langung & Barn	Date: 4/29/2009
Customer Signature:		Date: 4/29/2009

NO: T610001898



5432 Bent Pine Rd. Athens, AL 35614 256-777-4002 <u>Pictures</u>



Date Wed 4/29/2009

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

Pictures



Picture of boom scoped out and down.



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

Pictures



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



Picture of top view of boom out and down.

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.