

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



<u>Lattice Boom Crawler Crane</u> **Owner/User:** Midtown Steel

Manufacturer: LINKBELT	
<b>Model:</b> LS248H	CONNELLY  CONNELLY  BERROT 800-750-6698 LANSIN
Serial No:	

Inspector: Greg Beam

Date Fri 5/1/2009

Certification: 08-6333

Inspection No: T610001906

HrsUp: 7392 HrsLo:

Location: At the steel mill in South Pittsburg, TN

240

C5L13-0778

**Unit No:** 

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

(1) General Appearance Key Remarks

A. Paint OK

A. Paint	OK
B. Sheet Metal	OK
C. Walkway, Ladder, Steps	OK
D. House Keeping	OK
(2) Safety Items	
A. Load charts (are they readable)	OK
B. Boom angle indicators	OK
C. A2B System (TEST)	OK
D. LMI System (TEST)	OK See Comments Report Item No 2-D
E. Crane controls (are they labeled)	OK
F. Neutral start switch	OK
G. Back up alarm / Motion Alarm	OK
H. Operation of horn	OK
I. Lights	OK
J. Safety decals	OK
K. Fire extinguishers	OK
L. Machinery guards	OK

r				
(3) Power Plants (Upper & Lower)				
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			

M. Condition & operation of A2B reel

(4) Air Compressor	Key	Remarks
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	
B. Condition of hoist hydraulic motor or motors (leaks)	OK	
C. Operation of Hoist	N/A	
D. Hoist hydraulic circuit pressure	OK	
E. Check for abnormal noises, look for leaks	OK	
F. Check drum feeler mounting & operation	OK	
G. Condition & function of main hoist paw	OK	
H. Clutches / Brakes	OK	
I. Min. (2) Rope Wraps	OK	
J. Clutch / Brake Protection / Sheet Metal	OK	
	OK	
(6) Auxiliary Hoist Winch	OV	
A. Condition of hoist brake & brake control system  D. Condition of hoist budgeslie maters or maters (leaks)	OK OV	
B. Condition of hoist hydraulic motor or motors (leaks)	OK	
C. Operation of Hoist	OK	
D. Hoist hydraulic circuit pressure	OK	
E. Check for abnormal noises, look for leaks	OK	
F. Check drum feeler mounting & operation	OK	
G. Condition & function of auxiliary hoist paw	OK	
H. Clutches / Brakes	OK	
I. Min. (2) Rope Wraps	OK	
J. Clutch / Brake Protection / Sheet Metal	OK	
(7) Boom Hoist Winch(s)		
A. Condition of hoist brake & brake control system	OK	
B. Condition of hoist hydraulic motor or motors (leaks)	OK	
C. Operation of Hoist	OK	
D. Hoist hydraulic circuit pressure	OK	
E. Check for abnormal noises, look for leaks	OK	
F. Condition & function of boom hoist paw	OK	
G. Clutches / Brakes	OK	
H. Min. (2) Rope Wraps	OK	
I. Clutch / Brake Protection / Sheet Metal	OK	
(8) Luffing Jib Winch		
A. Condition of hoist brake & brake control system	N/A	
B. Condition of hoist hydraulic motor or motors (mounting/leaks)	N/A	
C. Operation of Hoist	N/A	
D. Check for abnormal noises, look for leaks	N/A	

<u>Lattice Boom Crawler Crane</u>

(O) I CC I'l W' I (C A' I)		D
(8) Luffing Jib Winch (Continued)	Key	Remarks
E. Check drum feeler mounting & operation	N/A	
F. Condition & mounting of luffer hoist	N/A	
G. Clutch / Brake Protection / Sheet Metal	N/A	
(9) Super Lift Winch		
A. Condition of hoist brake & brake control system	N/A	
B. Condition of hoist hydraulic motor or motors (mounting/leaks)	N/A	
C. Operation of Hoist	N/A	
D. Check for abnormal noises, look for leaks	N/A	
E. Check drum feeler mounting & operation	N/A	
F. Condition & mounting of super lift hoist	N/A	
G. Clutch / Brake Protection / Sheet Metal	N/A	
(10) Swing		
A. Condition of house lock	X	See Deficiences Report Item No 10-A
B. Condition of swing brake / Upper & Lower	OK	
C. Control linkage & pins	OK	
D. Condition of swing hydraulic motor	OK	
E. Condition of swing reduction gear box & mounting	OK	
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	
(11) Swivel Area (Air, Electrical, HYD.)		
A. Are all lines routed properly	OK	
B. Are all lines tight and not leaking	OK	
C. Are electrical connection tight	OK	
D. Are any wire exposed or rubbing	OK	
(12) Miscellaneous		'
A.	N/A	
B.	N/A	
C.	N/A	
(13) Boom & Jib		
A. Pivot pins & bushings	OK	
B. Sheaves & guards	OK	
C. Cable guide rollers	X	See Deficiences Report Item No 13-C
D. Cable retaining pins	OK	
E. Boom sections (Bends, Bows, Kinks, Ect.)	OK	
F. Upper frame work that holds boom	OK	
G. Check boom leaking in / down (Do brakes hold the boom, friction	OK	
crane.)		
H. Counterweight bolts & pins	OK	
I. Condition of jib	OK	
I Condition of heffin with	N/A	
J. Condition of luffing jib	11/7	

# My Inspection Company <u>Lattice Boom Crawler Crane</u>

Lattice Boom Cr		<b>n</b> 1
(13) Boom & Jib (Continued)	Key	Remarks
L. Boom alignment	OK	
M. Auxiliary boom head	N/A	
N. Condition & function of boom kick out switch	OK	
O. Condition of counter weight cylinders (leaking)	OK	
(14) Outrigger System		
A. Condition of outrigger boxes and beams	N/A	
B. Condition of pins, bushings, bolts, and welds	OK	
C. Condition of outrigger cylinders & holding valves	OK	
D. Condition of all stabilizer pads & floats	OK	
E. Condition of all stabilizer cylinders & holding valves	OK	
F. Condition of outrigger boxes where beams slide in and out	N/A	
(15) Crawler Assembly		
A. Car Body / Side Frames	OK	
B. Chain - Condition / Adjustment	N/A	
C. Sprockets / Idlers / Rollers	OK	
D. Track Pads / Pins	OK	
E. Travel Locks	OK	
F. Steering Clutches	N/A	
G. Condition & Operation of Travel Motors	OK	
H.	N/A	
(16) Air, Hydraulic, and Electrical Control Systems	<u>'</u>	
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)	X	See Deficiences Report Item No 16-E
F. Condition of hydraulic pumps	OK	
(17) Truck & Crawler Crane & Cab(s)		
A. Brakes (inspect)	N/A	
B. Condition of parking brake	OK	
C. Condition of hydraulic pump, mounting, leaks	OK	
D. Condition of carrier main frame (visible cracks)	OK	
E. Condition of axle mountings and suspension	N/A	
F. Level of hydraulic fluid	OK	
G. Abnormal noises & vibrations	OK	
H. Condition of tie off point at front of crane for block/ball to latch	OK	
for transportation purposes		
I. Air leaks	N/A	
J. Glass	OK	G D S : D . J . V . J . J . V
K. Condition of bubble level	X	See Deficiences Report Item No 17-K
L. Windshield wipers	X	See Deficiences Report Item No 17-L
M. Condition of doors, latch, open & close	OK	
N. Condition of mirrors, side mirrors, spot mirrors	OK	

(17) Truck & Crawler Crane & Cab(s) (Continued)	Key	Remarks
O. Seat mounting	OK	
P. Seat belts	OK	
Q. Air pressure warning device	N/A	
R. Gauges in cab (are they working)	X	See Deficiences Report Item No 17-R
S. Control Identified	OK	
T. Condition of grab rails & steps	OK	
U. Adjustment of clutch	N/A	
V. Condition & operation of arm rest switch	N/A	
W. Condition & operation of cab fans	OK	
X. Anti-Skid Surfaces(s)	OK	
Y. Operator's Manual	OK	
Z. Hand Signal Chart	OK	
AA. Electrical Wiring Condition	OK	
(18) Boom Support Group	,	
A. Ganrty / Mast	OK	
B. Boom Stops	OK	The boom kicks out at 81 degrees.
C. Inner Bail	OK	
D. Outer Bail / Equalizer	OK	
E. Sheave(s)	OK	
F. Boom Hoist Reeving	OK	
G.	N/A	
(19) Lattice Boom Group		
A. Boom Identification	OK	
B. Boom Sequence	OK	
C. Boom Alignment	OK	
D. Warning Decals	OK	
E. Spreader Bar	OK	
F. Sheave(s)	OK	
G. Hoist Line Dead End	OK	
H. Wire Rope Retainer(s)	OK	
I. Boom Foot Pins / Keepers	OK	
J. Boom Head Section	OK	
K. Auxiliary Boom Head	N/A	
L. Lattice Members	OK	
M. Cord Members	OK	
N. End Connections / Pins	OK	
0.	N/A	
(20) Lattice Jib Group		
A. Boom Identification	OK	
B. Boom Sequence	OK	
C. Boom Alignment	OK	
D. Warning Decals	OK	
E. Positive Stops	OK	

	tice Boom Crawler Crane	
(20) Lattice Jib Group (Continued)	Key	Remarks
F. Sheave(s)	OK	
G. Wire Rope Retainer(s)	OK	
H. Lattice Members	OK	
I. Cord Members	OK	
J. End Connectors / Pins	OK	
K. Condition of jib pins	OK	
L.	N/A	
(21) Lattice, Luffer Jib Group		
A. Boom Identification	N/A	
B. Boom Sequence	N/A	
C. Boom Alignment	N/A	
D. Warning Decals	N/A	
E. Positive Stops	N/A	
F. Sheave(s)	N/A	
G. Wire Rope Retainer(s)	N/A	
H. Lattice Members	N/A	
I. Cord Members	N/A	
J. End Connectors / Pins	N/A	
K. Condition of luffer Jib pins	N/A	
L. Boom Foot Pins / Keepers	N/A	
M.	N/A	
(22) Lattice Boom, Super Lift Group		
A. Boom Identification	N/A	
B. Boom Sequence	N/A	
C. Boom Alignment	N/A	
D. Warning Decals	N/A	
E. Positive Stops	N/A	
F. Sheave(s)	N/A	
G. Wire Rope Retainer(s)	N/A	
H. Lattice Members	N/A	
I. Cord Members	N/A	
J. End Connectors / Pins	N/A	
K. Condition of luffer Jib pins	N/A	
L. Boom Foot Pins / Keepers	N/A	
M.	N/A	
(23) Wire Rope Main Hoist		
A. Kinks or Birdcaging	OK	
B. Correct Length	OK	
C. Rope Damage	OK	
D. Measured Wear	.997'	
E. Type of wire rope	Rot	
-	resistant	

(23) Wire Rope Main Hoist (Continued)	Key	Remarks
F. Construction	16X7 Class	
G. Grade	EIP	
H. Core	IWRC	
I. Size	1 Inch	
J. Status	Not In Service	
K. Size correct for this model of crane	OK	
L. Broken Wires	OK	
M. Lubrication	X	See Deficiences Report Item No 23-M
N. End Connections	OK	
O. Spooling condition	OK	
P. Socket wedge condition & installation	N/A	
(24) Wire Rope Auxiliary Hoist	,	
A. Kinks or Birdcaging	OK	
B. Correct Length	OK	
C. Rope Damage	OK	
D. Measured Wear	1.029"	
E. Type of wire rope	Rot	
	Resistant	
F. Construction	16X7 Class	
G. Grade	eip	
H. Core	IWRC	
I. Size	1 Inch	
J. Status	In Servcie	
K. Size correct for this model of crane	OK	
L. Broken Wires	OK	
M. Lubrication	OK	
N. End Connections	OK	
O. Spooling condition	X	See Deficiences Report Item No 24-O
P. Socket wedge condition & installation	OK	
(25) Wire Rope Boom Hoist		
A. Kinks or Birdcaging	OK	
B. Correct Length	OK	
C. Rope Damage	X	See Deficiences Report Item No 25-C
D. Measured Wear	.852	Cable is measuring below Nominal Value
E. Type of wire rope	Flatened Strand	
F. Construction	6X25 Class	
G. Grade	XIP	
H. Core	IWRC	
I. Size	7/8'	

J. Size correct for this model of crane K. Broken Wires	OK	
V Droken Wires	OK	
N. DIOKEII WIIES	OK	
L. Lubrication	OK	
M. Proper revving	OK	
N. Spooling condition	OK	
O. Condition of pendant lines	OK	
P. Socket wedge condition & installation	OK	
(26) Wire Rope Luffer Jib 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	
(27) Wire Rope Super Lift 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	
(28) Lubrication		

# My Inspection Company <u>Lattice Boom Crawler Crane</u>

(28) Lubrication (Continued)	Key	Remarks
B. Is proper oil level being maintained on all reservoirs and gear cases		
(29) Record Keeping		
A. Load test reports	N/A	
B. Daily & monthly inspection reports	OK	
C. Repair records	OK	



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Date Fri 5/1/2009

Manufacturer: LI	NKBELT	Model: LS248H		Serial No: C5L13-0778	<b>Unit No:</b> 240
HrsUp: 7392	HrsLo:	Inspector: Greg Beam		Certification: 08-6333	<b>No:</b> T610001906
Location: At the steel mill in South Pittsburg, TN Owner/User: Midtown Steel					
KEY:	OK - Satisfactory	X - Unsatisfactory, recommend repair or replacement			N/A - Not Applicable

Location: At the steel mill in South Pittsburg, TN  Owner/User: Midtown Steel						
<u> </u>						
	1	nsatisfactory	Serial No:		- Not Applicable	
	Main Block Model: Make:  N/A  N/A			Capacity:	Weight: N/A	
(30) Main Block Component Identi		Vov	N/A Remarks	N/A	IN/A	
A. Throat Latch	iication	Key N/A	Remarks			
B. Capacity & Weight Labeled	N/A		116-11			
C. Sheaves & Reeving		N/A				
D. Spacers		N/A		(1)	m.	
E. Hook & Hook Shanks		N/A		(MIII)	***	
F. Hook Swivel & Bearing		N/A	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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				
Headache Ball Model:	Make:	14/11	Serial No:	Composituu	Waight	
15 TON McKISSICK	McKISSIC	עי	N/A	Capacity: 15 TON	Weight: 1,400LBS.	
(31) Headache Ball Component Ide		Key	Remarks	13 TON	1,400Lb3.	
A. Throat Latch	ittiication	X	See Deficiences Report Item	No 31-A		
B. Capacity & Weight Labeled		X	G D C 1 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
C. Hook & Hook Shanks		OK	See Deficiences Report Item No 31-B			
D. Hook Swivel & Bearing		OK				
E. Total Weights (Mounting)		OK				
F. Hook Throat Measurement		5.500"				
G. 10° Hook Twist		OK	101			
H. 15% Throat Opening		OK				
I. 10% Hook Wear	OK	(2)9				
Method used for Checking: Visual	Pass	Results of Visual Test: Pass				
			Serial No: Capacity: Weight:			
Auxiliary Model: N/A	N/A		N/A	N/A	N/A	
(32) Auxiliary Component Identific		Key	Remarks	IV/A	IV/A	
A. Throat Latch	ation	N/A	Remarks			
B. Capacity & Weight Labeled		N/A				
C. Sheaves & Reeving	N/A					
D. Spacers	N/A	1	116.1	-00		
E. Hook & Hook Shanks		N/A			911	
F. Hook Swivel & Bearing	N/A	4				
G. Total Weights (Mounting)	N/A	(°		0		
H. Hook Throat Measurement	N/A	}	RUE !			
I. 10° Hook Twist	N/A		U/IIA//	(0)		
J. 15% Throat Opening	N/A		7. A	3/2		
K. 10% Hook Wear	N/A		(	<del>\(\frac{1}{2}\)</del>		
Method used for Checking:		N/A				
		1	1			



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



**Date** Fri 5/1/2009

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.

		Serial No: C5L13-0778 U		Un	<b>Jnit No:</b> 240			
		Certification: 08-6333 No: To			: T6100019	Γ610001906		
Location	on: At the steel mill in Sou	th Pittsburg, TN O	wner/User: N	lidtown	Steel			
Item No	_	A, PCSA, ANSI/ASME ref	erence)		Corrective Action		Date Corrected	Repaired By
(10) Sw	ing - A. Condition of house	lock						
10-A	The house lock is very har	d to pull out at times.						
(13) Boo	om & Jib - C. Cable guide ro							
13-C	There are 2 cable rollers mareinstalled (see attached pl	nissing from the top of the boato)	oom that need t	to be				
(13) Boo	om & Jib - K. Condition of la	acing, cords, & welds						
13-K		n the 1st section of boom pare eplaced. It is the 4th piece from eattached picture)						
(16) Air	Hydraulic, and Electrical C		on of all air & l	hydraul	ic hoses & piping (vi	sual)		
16-E	There are a few Hyd. Leak	s that should be repaired.						
(17) Tru	ick & Crawler Crane & Cab							
17-K	The bubble level that is locand should be replaced. (see	cated on the lower front of the attached photo)	he main frame i	is bad				
(17) Tru	ick & Crawler Crane & Cab	(s) - L. Windshield wipers						
17-L	The top wiper is broken an	d needs to be repaired.						
(17) Tru	ick & Crawler Crane & Cabo	(s) - R. Gauges in cab (are the	hey working)					
17-R	The tach does not work an	d the fuel gauge does not we	ork.					
(23) Wii	re Rope Main Hoist - M. Lul	orication						
23-M	The cable is very rusted an	d needs to be lubricated						
(24) Wii	re Rope Auxiliary Hoist - O.	Spooling condition						
24-O	The front drum is misspoo it straightens out and then	led and needs to be pulled o respooled.	off to the point v	where				
(25) Wii	re Rope Boom Hoist - C. Roj	pe Damage						
25-C		y on the second layer from to nominal value for a 7/8" cab		the				
(31) Hea	adache Ball Component Iden	tification - A. Throat Latch						
31-A	The throat latch is bent to	one side and should be repla	aced.					
(31) Hea	adache Ball Component Iden	tification - B. Capacity & W	Veight Labeled	(PCSA	#2 7.11.6)		,	
31-B	ties the swivel and the hoo	not labeled on the ball. Als k together is missing the nu in it's place, Thru bolt shoul	t and a homem	ade				

NO: T610001906

Inspection Deficiency Report NO: T610001906

Item Inspected	(OSHA, PCSA, ANSI/ASME reference)	Corrective	Date	Repaired
Item No Deficiency		Action	Corrected	By

12 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:	Lung ang I Dean	Date: 5/1/2009
	<b>3</b> /	
Customer Signature:		Date: 5/1/2009



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



Date Fri 5/1/2009

**Pictures** 

Manufacturer: LIN	NKBELT	Model: LS248H		Serial No: C5L13-0778	<b>Unit No:</b> 240	
HrsUp: 7392	HrsLo:	Inspector: Greg Beam		Certification: 08-6333	<b>No:</b> T610001906	
Location: At the steel mill in South Pittsburg, TN			Owner/User:	Midtown Steel		



Picture of main hoist (rear drum) that is not being used and the rusted up condition of the cable.



Picture of Au. Hoist (front drum) cable that needs to be lubricated.



Picture of bubble level on the lower front frame that is unreadable.



Picture of rear counter weights. Total of 3 weights (97,790Lbs.)



Picture of right side of crane.



Picture of left side of crane.



Picture of boom in the air 200feet of main and 50 feet of jib.



Picture of safety latch is bent to one side and should be replaced with a correct safety latch.



Picture of homemade weldment that is retaining the thru bolt.



Picture of missing cable guide rollers on top of the boom.



Picture of butt section C5M0036 S/N-L069325



Picture of 1st section past Butt. C5M0182 S/N-L029140



Picture of 2nd section past butt. C5M0182 S/N-L0100327



Picture of 4th section past butt (No tag)



Picture of open throat tip section. ( No tag)



Picture of 3rd section past butt C5M0185 S/N-L049205



Picture of 5th section past butt. H3M0007 S/N-L0003110



Picture of jib mast and pendant lines

## My Inspection Company Pictures



Picture of jib butt section. 28M0998 S/N-L049358



Picture of 1st section of jib past the Butt. 28M0916 S/N-L049208



Picture of jib tip Section. 28M2284 S/N-L0807111



Picture of boom laid out and down.



Picture of pendant lines and boom mast.

## My Inspection Company Pictures



Picture of boom hoist cable crushing.



Picture of dents in the lacing in the first section.