


My Inspection Company

5432 Bent Pine Rd.

Athens, AL 35614

256-777-4002

Lattice Boom Crawler Crane

Owner/User: Midtown Steel		Date: Fri 5/1/2009
Manufacturer: LINKBELT		Inspector: Greg Beam
Model: LS248H		Certification: 08-6333
Serial No: C5L13-0778		Inspection No: T610001906
Unit No: 240		HrsUp: 7392 HrsLo:
Location: At the steel mill in South Pittsburg, TN		

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

(1) General Appearance		Key	Remarks
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		
M. Condition & operation of A2B reel	OK		
(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		

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(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	
(6) Auxiliary 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		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	

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(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 Deficiencies 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 Deficiencies 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 crane.)	OK		
H. Counterweight bolts & pins	OK		
I. Condition of jib	OK		
J. Condition of luffing jib	N/A		
K. Condition of lacing, cords, & welds	X	See Deficiencies Report Item No 13-K	

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(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			
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 Deficiencies 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 for transportation purposes		OK	
I. Air leaks		N/A	
J. Glass		OK	
K. Condition of bubble level		X	See Deficiencies Report Item No 17-K
L. Windshield wipers		X	See Deficiencies Report Item No 17-L
M. Condition of doors, latch, open & close		OK	
N. Condition of mirrors, side mirrors, spot mirrors		OK	

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(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 Deficiencies 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. Gantry / 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	
O.		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	

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(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	

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(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 Deficiencies 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 Service	
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 Deficiencies 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 Deficiencies 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"	

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(25) Wire Rope Boom Hoist (Continued)		Key	Remarks
J. Size correct for this model of crane		OK	
K. Broken Wires		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			
A. Does machine appear to be receiving adequate service and lubrication		OK	

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



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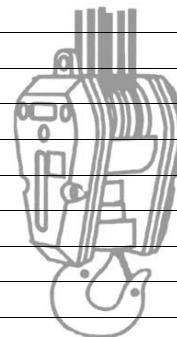
Date Fri 5/1/2009

Manufacturer: LINKBELT		Model: LS248H		Serial No: C5L13-0778	Unit No: 240
HrsUp: 7392	HrsLo:	Inspector: Greg Beam		Certification: 08-6333	No: 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

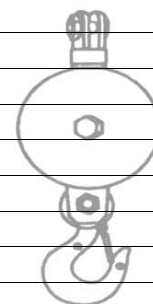
Main Block Model:	Make:	Serial No:	Capacity:	Weight:
N/A	N/A	N/A	N/A	N/A

(30) Main Block 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	



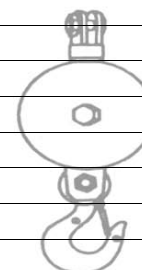
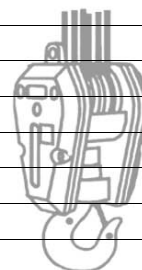
Headache Ball Model:	Make:	Serial No:	Capacity:	Weight:
15 TON McKISSICK	McKISSICK	N/A	15 TON	1,400LBS.

(31) Headache Ball Component Identification	Key	Remarks
A. Throat Latch	X	See Deficiencies Report Item No 31-A
B. Capacity & Weight Labeled	X	See Deficiencies Report Item No 31-B
C. Hook & Hook Shanks	OK	
D. Hook Swivel & Bearing	OK	
E. Total Weights (Mounting)	OK	
F. Hook Throat Measurement	5.500"	
G. 10° Hook Twist	OK	
H. 15% Throat Opening	OK	
I. 10% Hook Wear	OK	
Method used for Checking: Visual	Pass	Results of Visual Test: Pass



Auxiliary Model:	Make:	Serial No:	Capacity:	Weight:
N/A	N/A	N/A	N/A	N/A

(32) 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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Inspection Deficiency Report



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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.

Manufacturer: LINKBELT		Model: LS248H		Serial No: C5L13-0778		Unit No: 240	
HrsUp: 7392		HrsLo:		Inspector: Greg Beam		Certification: 08-6333	
No: T610001906							
Location: At the steel mill in South Pittsburg, TN				Owner/User: Midtown Steel			
Item No	Item Inspected (OSHA, PCSA, ANSI/ASME reference)	Deficiency	Corrective Action	Date Corrected	Repaired By		
(10) Swing - A. Condition of house lock							
10-A	The house lock is very hard to pull out at times.						
(13) Boom & Jib - C. Cable guide rollers							
13-C	There are 2 cable rollers missing from the top of the boom that need to be reinstalled (see attached photo)						
(13) Boom & Jib - K. Condition of lacing, cords, & welds							
13-K	There is a piece of lacing in the 1st section of boom past the butt that has 2 dents in it and should be replaced. It is the 4th piece from the front picture window on the left side (see attached picture)						
(16) Air, Hydraulic, and Electrical Control Systems - E. Condition of all air & hydraulic hoses & piping (visual)							
16-E	There are a few Hyd. Leaks that should be repaired.						
(17) Truck & Crawler Crane & Cab(s) - K. Condition of bubble level							
17-K	The bubble level that is located on the lower front of the main frame is bad and should be replaced. (see attached photo)						
(17) Truck & Crawler Crane & Cab(s) - L. Windshield wipers							
17-L	The top wiper is broken and needs to be repaired.						
(17) Truck & Crawler Crane & Cab(s) - R. Gauges in cab (are they working)							
17-R	The tach does not work and the fuel gauge does not work.						
(23) Wire Rope Main Hoist - M. Lubrication							
23-M	The cable is very rusted and needs to be lubricated						
(24) Wire Rope Auxiliary Hoist - O. Spooling condition							
24-O	The front drum is misspooled and needs to be pulled off to the point where it straightens out and then respoiled.						
(25) Wire Rope Boom Hoist - C. Rope Damage							
25-C	The cable is crushing badly on the second layer from the drum, Also the cable is measuring below nominal value for a 7/8" cable.						
(31) Headache Ball Component Identification - A. Throat Latch							
31-A	The throat latch is bent to one side and should be replaced.						
(31) Headache Ball Component Identification - B. Capacity & Weight Labeled (PCSA #2 7.11.6)							
31-B	The capacity and weight is not labeled on the ball. Also the thru bolt that ties the swivel and the hook together is missing the nut and a homemade piece is welded to the bolt in it's place, Thru bolt should be replaced with the correct bolt and nut.						

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NO: T610001906

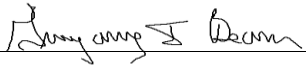
Inspection Deficiency Report

NO: T610001906

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

Date: 5/1/2009

Customer Signature: _____

Date: 5/1/2009

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Pictures

Date Fri 5/1/2009

Manufacturer: LINKBELT		Model: LS248H		Serial No: C5L13-0778		Unit No: 240		
HrsUp: 7392		HrsLo:	Inspector: Greg Beam		Certification: 08-6333		No: 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.

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Pictures



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

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Pictures



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



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



Picture of 4th section past butt (No tag)



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



Picture of open throat tip section. (No tag)



Picture of jib mast and pendant lines

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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.

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Pictures



Picture of boom hoist cable crushing.



Picture of dents in the lacing in the first section.