

Maxim Crane Works, LP

5 Year Maintenance History Summary

808

165 ton

LIEBHERR LTM1120

1992

Maxim performs scheduled Preventative Maintenance ("PMs) procedures at least every 90 days and more periodically depending on crane usage. Maxim performs a comprehensive crane inspection at each PM interval, before and after each crane rental and annually in accordance with OSHA and ANSI requirements. Maxim installed its computerized maintenance management system in 2004, attached is a standard cost summary of workorders documented since system installation. All workorders exceeding \$10,000, representing rebuild activities and major component replacement, are attached for review.

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
NER	808	HYD	6353	7/8/2003	HYDRAULIC	OUTRIGGER BEAM CYL.MOUNT BROKE	-	144	144
NER	808	HYD	3983	7/21/2003	FRAME AND CHASSIS	OUT. BEAM CYL MOUNT BROKEN;CYL DROPPED DOWN	75	288	313
NER	808	HYD	8708	8/8/2003	COMPUTER SYSTEMS	A2B CABLE ON REAR REEL BROKEN	23	360	533
NER	808	HYD	13092	9/10/2003	BRAKES	BRAKE REPAIR	-	312	312
NER	808	HYD	13275	9/10/2003	PREVENTATIVE MAINTENANCE	HYD LEAK REVERSE LITE BROKEN	-	432	432
NER	808	HYD	10450	9/10/2003	PREVENTATIVE MAINTENANCE	REPAIR LOWER DOOR,CHECK FOR SERVICE,UPPER&LOWER	-	1,440	1,440
NER	808	HYD	14830	9/13/2003	HYDRAULIC	REPAIR OUTRIGGER	-	264	264
NER	808	HYD	18165	10/11/2003	FRAME AND CHASSIS	REPAIR	-	48	48
NER	808	HYD	17052	10/11/2003	DRIVE TRAIN	TRANS. REPAIR	-	168	168
NER	808	HYD	18613	10/18/2003	PREVENTATIVE MAINTENANCE	PREP FOR RENTAL	-	1,272	1,272
NER	808	HYD	19839	11/3/2003	ENGINE	REPAIR	16,430	6,504	22,934
NER	808	HYD	24096	11/15/2003	PREVENTATIVE MAINTENANCE	MISC. REPAIRS	-	168	168
NER	808	HYD	23428	11/15/2003	INSPECTIONS	INSPECTION	83	264	347
NER	808	HYD	28043	12/16/2003	TIRES	TIRES	84	288	372
NER	808	HYD	29840	12/20/2003	ENGINE	ENGINE REPAIR	-	72	72
NER	808	HYD	36208	2/10/2004	ENGINE	ENGINE(UPPER)	-	216	216
NER	808	HYD	38001	2/13/2004	COMPUTER SYSTEMS	COMPUTER SYSTEM	-	192	192
NER	808	HYD	37313	2/13/2004	ENGINE	ENGINE	184	936	1,120
NER	808	HYD	40354	4/8/2004	DRIVE TRAIN	TRANSMISSION	-	168	168
NER	808	HYD	44098	4/17/2004	ENGINE	ENGINE	343	864	1,207
NER	808	HYD	51062	5/11/2004	DRIVE TRAIN	TRANSMISSION	-	264	264
NER	808	HYD	56517	5/13/2004	OUTRIGGERS	OUTRIGGER REPAIR	-	408	408
NER	808	HYD	61038	6/28/2004	PREVENTATIVE MAINTENANCE	PREVENTATIVE MAINTENANCE	70	504	574
NER	808	HYD	69792	7/27/2004	HYDRAULIC	HYDRAULIC REPAIR	108	216	324
NER	808	HYD	75084	8/23/2004	ELECTRICAL	ELECTRICAL PROBLEM	1,313	1,272	2,585
NER	808	HYD	82471	9/29/2004	HYDRAULIC	HYDRAULIC PROBLEM	-	60	60
NER	808	HYD	89396	10/29/2004	ELECTRICAL	ELECTRICAL MAINTENANCE	256	600	856
NER	808	HYD	79464	10/29/2004	DRIVE TRAIN	AXLE REPAIR	4,789	1,296	6,085
NER	808	HYD	90726	10/30/2004	ELECTRICAL	ADDENDUM TO W.O. #89396	16	-	16
NER	808	HYD	93301	11/23/2004	ENGINE	ENGINE MAINTENANCE	4	144	148
NER	808	HYD	91258	1/28/2005	DRIVE TRAIN	AXLE REPAIR	1,519	780	2,299
NER	808	HYD	111140	3/5/2005	ENGINE	ENGINE PROBLEM	8	144	152
NER	808	HYD	104917	3/5/2005	ENGINE	ENGINE MAINTENANCE - FULL SERVICE	612	336	948
NER	808	HYD	115370	3/11/2005	COMPUTER SYSTEMS	COMPUTER	1,491	288	1,779
NER	808	HYD	123578	4/22/2005	TIRES	TIRES	-	192	192
NER	808	HYD	134416	6/9/2005	TIRES	TIRE REPAIR	300	-	300
NER	808	HYD	125003	6/10/2005	PREVENTATIVE MAINTENANCE	PREVENTATIVE MAINT.	2,384	1,500	3,884
NER	808	HYD	139418	8/5/2005	ELECTRICAL	ELECTRICAL REPAIRS	-	72	72
NER	808	HYD	137982	8/5/2005	HYDRAULIC	HYDRAULIC LEAK	2,381	528	2,909
NER	808	HYD	142917	8/31/2005	TIRES	TIRES	2,264	2,952	5,216
NER	808	HYD	143487	9/15/2005	BOOM	ROTEK BEARING, BOOM TELESCOPE, UPPER ENGINE.	11,044	96	11,140
NER	808	HYD	197537	3/31/2006	INSPECTIONS	ANNUAL INSPECTION IS DUE	-	480	480
NER	808	HYD	153478	3/31/2006	BOOM	ROTEC NEEDS REPLACED / SCOPE CYLINDER	42,528	76,512	119,040
NER	808	HYD	201681	4/21/2006	PREVENTATIVE MAINTENANCE	REPAIR OIL LEAKS	-	72	72
NER	808	HYD	207099	6/1/2006	OUTRIGGERS	OUTRIGGER PADS NEED REPLACED	-	876	876
NER	808	HYD	212299	6/9/2006	PREVENTATIVE MAINTENANCE	UPPER SERVICE	1,188	720	1,908
NER	808	HYD	216885	7/3/2006	PAINTING	TIRES	250	-	250
NER	808	HYD	220543	7/14/2006	ELECTRICAL	EXPENSE PARTS	83	-	83
NER	808	HYD	230919	9/5/2006	PREVENTATIVE MAINTENANCE	SERVICE	45	456	501

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
NER	808	HYD	236220	9/26/2006	TIRES	TIRE REPAIR	510	-	510
NER	808	HYD	239213	10/11/2006	TIRES	TIRE EXPENSE FROM WORK ORDER 236220	1,350	-	1,350
NER	808	HYD	223420	10/12/2006	PAINTING	PAINT JIB	1,076	1,752	2,828
NER	808	HYD	247930	12/26/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER	170	696	866
NER	808	HYD	253917	1/15/2007	COMPUTER SYSTEMS	COMPUTER	1,850	1,296	3,146
NER	808	HYD	265980	2/16/2007	INSPECTIONS	ANNUAL INSP.	-	48	48
NER	808	HYD	259944	2/19/2007	TIRES	INSTALL TIRES	4,025	2,940	6,965
NER	808	HYD	267948	3/7/2007	FRAME AND CHASSIS	CHECK STEERING ARM	-	336	336
NER	808	HYD	268998	3/12/2007	ELECTRICAL	BROKEN TAIL LITE	201	336	537
NER	808	HYD	271332	3/28/2007	TIRES	INSTALL TIRES	2,295	-	2,295
NER	808	HYD	283629	5/21/2007	PREVENTATIVE MAINTENANCE	UPPER SERVICE	23	384	407
NER	808	HYD	293168	7/2/2007	TIRES	TIRE REPAIRS LEFT OFF WO 271332	591	-	591
NER	808	HYD	289999	8/14/2007	PREVENTATIVE MAINTENANCE	REPLACE SHEAVES	3,629	384	4,013
NER	808	HYD	306094	9/19/2007	PREVENTATIVE MAINTENANCE	SERVICE-UPPER- HRS. 14896	23	336	359
NER	808	HYD	305665	10/5/2007	DRIVE TRAIN	AXLE REPAIR	4,520	-	4,520
NER	808	HYD	318233	12/6/2007	HYDRAULIC	REPACK OUTRIGGER CYL.	9,680	5,520	15,200
NER	808	HYD	325084	12/12/2007	COMPUTER SYSTEMS	COMPUTER PROBLEM	-	384	384
NER	808	HYD	328637	1/7/2008	INSPECTIONS	INSPECTION	-	72	72
NER	808	HYD	332823	1/21/2008	TIRES	REPAIR FLAT	320	-	320
NER	808	HYD	333210	2/19/2008	INSPECTIONS	INSPECTION	769	96	865
NER	808	HYD	343219	2/26/2008	INSPECTIONS	CHECK OVER FOR RENTAL	-	600	600
NER	808	HYD	347022	3/12/2008	PREVENTATIVE MAINTENANCE	INSTALL STROBE LIGHT	131	-	131
NER	808	HYD	350450	4/3/2008	FRAME AND CHASSIS	REPAIR DRAG LINK	-	336	336
NER	808	HYD	351617	4/16/2008	DRIVE TRAIN	MAKE ADJUSTMENTS TO BACK DRAGLINK	-	960	960
NER	808	HYD	352761	4/29/2008	PREVENTATIVE MAINTENANCE	SERVICE- UPPER & LOWER	260	852	1,112
NER	808	HYD	362608	6/24/2008	PREVENTATIVE MAINTENANCE	UPPER SERVICE	45	144	189
NER	808	HYD	361688	6/26/2008	ELECTRICAL	WINCH NOT WORKING	1,420	696	2,116
NER	808	HYD	368421	7/16/2008	FRAME AND CHASSIS	LABOR HOURS FOR DAMAGE SUSTAINED AT MITTAL STEEL	-	768	768
NER	808	HYD	367125	7/18/2008	POST RENTAL INSPECTIONS	INSPECTION AFTER MANNED RENTAL	498	2,172	2,670
NER	808	HYD	375117	9/2/2008	PREVENTATIVE MAINTENANCE	UPPER SERVICE	16	216	232
NER	808	HYD	378117	9/16/2008	HYDRAULIC	HYDRAULIC LEAK	53	72	125
NER	808	HYD	391108	12/15/2008	COMPUTER SYSTEMS	COMPUTER MONITOR NOT COMING ON	32	528	560
NER	808	HYD	382877	12/29/2008	AUCTIONS	MISC REPAIRS	1,266	936	2,202
NER	808	HYD	393445	1/8/2009	PREVENTATIVE MAINTENANCE	SERVICE	1,657	984	2,641
NER	808	HYD	401125	2/19/2009	ELECTRICAL	CHECK WIRING FOR LIGHTS	-	384	384
NER	808	HYD	402560	3/2/2009	HYDRAULIC	REPAIR HYDRAULIC OIL LEAK	19	240	259
NER	808	HYD	404990	3/23/2009	COMPUTER SYSTEMS	REPAIR 2BLOCK ON JIB	15	624	639
NER	808	HYD	407436	4/27/2009	HYDRAULIC	WORK ON C4 LIST	1,260	3,072	4,332
NER	808	HYD	413585	5/11/2009	ENGINE	NO POWER- LOWER ENGINE	6	156	162

Work Order Estimate

Work Order #	19839
Branch	PHL
Bill to Branch	PHL
Customer Number	0
Equipment Model	LTM1120
Equipment Class	165
Description of Problem	
Work Order Desc.	REPAIR
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	
Authorized Date	
Created By	PETEC
Date Opened	10/15/2003
Equipment Number	808
Equipment Make	LIEBHERR
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$7,920.00
Parts Total \$	\$0.00	\$16,430.31
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$24,350.31

Labor

Labor					
		0	\$0.00	135.5	\$7,920.00
Totals:		0	\$0.00	135.5	\$7,920.00

Parts

Parts					
		0	\$0.00	1	\$371.12
BG	BEARING				
CB	CABLE ASSEMBLY	0	\$0.00	3	\$16,059.19
Totals:		0	\$0.00	4	\$16,430.31

Other

Other					
	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	143487
Branch	PHL
Bill to Branch	PHL
Customer Number	0
Equipment Model	LTM1120
Equipment Class	165
Description of Problem	
Work Order Desc.	ROTEK BEARING, BOOM TELESCOPE, UPPER ENGINE.
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved Dennis Wagner
Authorized Date	
Created By	SHANNON
Date Opened	07/27/2005
Equipment Number	808
Equipment Make	LIEBHERR
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$9,408.00	\$96.00
Parts Total \$	\$39,951.68	\$14,043.68
Misc Charge	\$0.00	\$0.00
Total \$	\$49,359.68	\$14,139.68

Labor

4726	REMOVE & REPLACE ENGINE	36	\$1,728.00	0	\$0.00
5330	REMOVE & REPLACE ROTEC BEARING	32	\$1,536.00	0	\$0.00
5333	REMOVE & REPLACE TELESCOPE CYLINDER	96	\$4,608.00	2	\$96.00
5652	REPLACE ROTEC BEARING AND ALL BOLTS	32	\$1,536.00	0	\$0.00
Totals:		196	\$9,408.00	2	\$96.00

Parts

.	LIEBHERR LTM 1120 SLEWING RING	5	\$22,043.68	1	\$3,000.00
.	FREIGHT ON PARTS	0	\$0.00	1	\$658.68
EN	WHOLE ENGINES	0	\$0.00	1	\$10,385.00
HB	HYD BOOM CYLINDER	2	\$2,577.00	0	\$0.00
HW	HARDWARE	104	\$5,436.00	0	\$0.00
RB	SLEWING BEARING (ROTEX)	1	\$9,895.00	0	\$0.00
Totals:		112	\$39,951.68	3	\$14,043.68

Other

	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	153478
Branch	RAN
Bill to Branch	PHL
Customer Number	0
Equipment Model	LTM1120
Equipment Class	165
Description of Problem	
Work Order Desc.	ROTEC NEEDS REPLACED / SCOPE CYLINDER
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	TCARLETTI
Date Opened	09/14/2005
Equipment Number	808
Equipment Make	LIEBHERR
Equipment Category	60

	Estimate	Actual
Labor Total \$	\$0.00	\$76,512.00
Parts Total \$	\$0.00	\$42,528.24
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$119,040.24

Labor

Code	Description	Estimate	Actual
5110	CRANE DISASSEMBLY	0	\$1,584.00
5330	R&R SLEWING BEARING	0	\$5,760.00
5488	INSPECT LOWER ENGINE	0	\$2,400.00
5622	RECOND. TELESCOPE CYLINDERS	0	\$2,352.00
5644	RECONDITION LOWER CAB	0	\$912.00
5645	RECONDITION UPPER CAB	0	\$1,536.00
5654	PREP AND PAINT SHEET METAL, BOOM & MISC PARTS	0	\$24,960.00
5671	RECONDITION AIR SYSTEMS	0	\$7,344.00
5882	RECONITION CHASSIS	0	\$6,504.00
5883	RECONDITION HYDRAULIC SYSTEM	0	\$7,944.00
5885	RECONDITION ELECTRICAL SYSTEM	0	\$4,608.00
5886	R&R BOOM	0	\$3,792.00
6102	REPAIR SHEET METAL (ALL)	0	\$6,240.00
6107	FINAL INSPECTION AND RECERTIFICATION	0	\$576.00
Totals:		0	\$76,512.00

Parts

Code	Description	Estimate	Actual
	LIEBHERR LTM 1120 SLEWING RING	0	\$3,000.00
	FREIGHT ON PARTS	0	\$658.80
	FREIGHT ON PARTS	0	\$0.00
	OUTSIDE REBUILD	0	\$0.00
BG	BEARING	0	\$103.00
BR	BRAKES	0	\$1,500.00
DC	DECALS	0	\$26.65
DT	DRIVETRAIN	0	\$1,151.00
EL	ELECTRICAL	0	\$945.00
EN	WHOLE ENGINES	0	\$10,385.00
EP	ENGINE PARTS	0	\$1,910.22
FL	FILTER	0	\$40.27
GL	GLASS & MIRRORS	0	\$140.11
GS	GASKET	0	\$14.26
HB	HYD BOOM CYLINDER	0	\$2,577.00
HC	HYDRAULIC COMPONENTS	0	\$2,006.00
HW	HARDWARE	0	\$5,436.00
LT	LIGHTS	0	\$5.89
RB	SLEWING BEARING (ROTEX)	0	\$9,895.00
SK	SEAL KIT	0	\$1,639.50
SL	SEAL	0	\$1,094.54
Totals:		0	\$42,528.24

Work Order Estimate

Work Order #	318233
Branch	PHL
Bill to Branch	PHL
Customer Number	0
Equipment Model	LTM1120
Equipment Class	I65
Description of Problem	HRS. UPPER-14949 LOWER-7433
Work Order Desc.	REPACK OUTRIGGER CYL.
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	JOHNK
Date Opened	11/02/2007
Equipment Number	808
Equipment Make	LIEBHERR
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$5,520.00
Parts Total \$	\$0.00	\$9,679.94
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$15,199.94

Labor

Code	Description	Hours	Rate	Total Hours	Total Cost
4731	REBUILD OUTRIGGER CYLINDERS	0	\$0.00	101	\$5,520.00
Totals:		0	\$0.00	101	\$5,520.00

Parts

Code	Description	Quantity	Unit Price	Total Quantity	Total Cost
BG	BEARING	0	\$0.00	2	\$278.40
DT	DRIVETRAIN	0	\$0.00	5	\$5,816.82
FL	FILTER	0	\$0.00	9	\$62.49
HC	HYDRAULIC COMPONENTS	0	\$0.00	1	\$1,112.50
HW	HARDWARE	0	\$0.00	10	\$821.11
SK	SEAL KIT	0	\$0.00	2	\$976.14
VV	VALVES	0	\$0.00	1	\$612.48
Totals:		0	\$0.00	30	\$9,679.94

Other

Code	Description	Quantity	Unit Price	Total Quantity	Total Cost
	Nothing Found				
Totals:					