

Maxim Crane Works, LP

5 Year Maintenance History Summary

2808

150 ton

DEMAG AC395

1996

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	2808	HYD	2714	5/28/2003	HYDRAULIC	HYD HOSE IN BEAM LEAKING	350	144	494
NER	2808	HYD	3423	6/10/2003	INSPECTIONS	PERFORM ANNUAL INSPECTION	-	96	96
NER	2808	HYD	2323	7/18/2003	CAB	REPAIR	343	432	775
NER	2808	HYD	8706	7/30/2003	BILLABLE ASSEMBLY	ASSIST IN SET-UP AND BREAK DOWN OF CRANE	-	1,632	1,632
NER	2808	HYD	9257	8/4/2003	ELECTRICAL	REPLACE MUD FLAPS, REPAIR LIGHTS,	125	264	389
NER	2808	HYD	10558	8/12/2003	COMPUTER SYSTEMS	LMI NOT WORKING / LENGTH IND OFF	-	72	72
NER	2808	HYD	12500	8/26/2003	ENGINE	LOWER RADIATOR FITTING BROKEN AND LEAKING	-	192	192
NER	2808	HYD	14527	9/15/2003	HYDRAULIC	HYDRAULIC LEAK	-	288	288
NER	2808	HYD	15150	9/23/2003	ELECTRICAL	OUT RIGGERS WILL NOT RAISE	-	1,080	1,080
NER	2808	HYD	16069	9/29/2003	DRIVE TRAIN	SHIFTER LOOSE AND WILL NOT DOWN SHIFT	-	48	48
NER	2808	HYD	16973	10/1/2003	ELECTRICAL	LEFT SIDE RUNNING LIGHTS OUT AND RIGHT REAR TAIL L	-	72	72
NER	2808	HYD	13226	10/13/2003	COMPUTER SYSTEMS	LMI NOT ACCURATE WHEN BOOM IS SCOPED IN	-	264	264
NER	2808	HYD	18061	10/21/2003	HYDRAULIC	OPERATOR COPLAINT NO SWING BRAKE	-	216	216
NER	2808	HYD	17033	11/4/2003	ELECTRICAL	OUT RIGGER WILL NOT EXTEND	-	1,584	1,584
NER	2808	HYD	25058	11/14/2003	ENGINE	NO POWER (FUEL)	-	144	144
NER	2808	HYD	25671	11/17/2003	PREVENTATIVE MAINTENANCE	REFERENCE TO WORK ORDER#25058 FOR TIME ONLY	-	144	144
NER	2808	HYD	28549	12/10/2003	BRAKES	AIR LEAK	-	576	576
NER	2808	HYD	29951	12/15/2003	BILLABLE DISASSEMBLY	PULL ALL 4 OUTRIGGERS	-	96	96
NER	2808	HYD	29322	12/15/2003	BILLABLE ASSEMBLY	HELP PLACE CRANE ON SITE, TAKE PLANKS	-	312	312
NER	2808	HYD	32410	12/31/2003	BILLABLE	WORK AS OILER AT ISG BALTIMORE	-	552	552
NER	2808	HYD	30765	12/31/2003	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	-	1,344	1,344
NER	2808	HYD	34090	1/9/2004	PREVENTATIVE MAINTENANCE	FOR TIME ONLY REFER. TO WO#17033	-	192	192
NER	2808	HYD	34091	1/9/2004	PREVENTATIVE MAINTENANCE	FOR TIME ONLY REF. TO WO#30765	-	1,032	1,032
NER	2808	HYD	34645	1/21/2004	PREVENTATIVE MAINTENANCE	FOR TIME ONLY REF. TO WO # 33280	-	144	144
NER	2808	HYD	37986	2/5/2004	ENGINE	OPERATOR REPORTS NO POWER ON UPPER ENGINE	-	288	288
NER	2808	HYD	42592	3/1/2004	PREVENTATIVE MAINTENANCE	OUT RIGGER PADS NEED REPAIRED	-	864	864
NER	2808	HYD	33733	4/27/2004	ELECTRICAL	TAG LIGHT BROKE	-	192	192
NER	2808	HYD	56750	5/11/2004	PREVENTATIVE MAINTENANCE	ROAD LEGAL TEAR DOWN	-	168	168
NER	2808	HYD	38658	5/11/2004	PREVENTATIVE MAINTENANCE	LMI NOT WORKING PROPERLY, HEATER IN UPPER NOT WORK	-	984	984
NER	2808	HYD	58721	5/19/2004	PREVENTATIVE MAINTENANCE	SERVICE IS DUE	108	2,280	2,388
NER	2808	HYD	44892	6/15/2004	COMPUTER SYSTEMS	WIRE ON REAL BROKE	-	1,260	1,260
NER	2808	HYD	65062	6/16/2004	HEATING AND AIR CONDITIONING	AIR LINE / EXHAUST REPAIRS	-	1,380	1,380
NER	2808	HYD	69996	7/12/2004	ELECTRICAL	UNIT WILL NOT START	-	384	384
NER	2808	HYD	69047	7/13/2004	PREVENTATIVE MAINTENANCE	CRANE DEAD IN LOWER - REPLACED BOTH LOWER BATTERY	-	384	384
NER	2808	HYD	33543	7/28/2004	PREVENTATIVE MAINTENANCE	REPAIR OUT RIGGER PAD	-	408	408
NER	2808	HYD	74286	8/31/2004	COMPUTER SYSTEMS	COMPUTER SYSTEMS	-	1,572	1,572
NER	2808	HYD	88804	10/20/2004	ELECTRICAL	BATTERY DID NOT GET ATTACHED TO WORK ORDER 69047	108	-	108
NER	2808	HYD	84357	10/21/2004	HYDRAULIC	HYD LEAK - HAVE TO ORDER PUMP- UPPER ENGINE FULE L	185	2,388	2,573
NER	2808	HYD	92492	11/15/2004	ENGINE	ENGINE OIL LEAK UPPER- REPLACED OIL FILTER O RINGS	-	660	660
NER	2808	HYD	94384	3/30/2005	BILLABLE DISASSEMBLY	REPAIRS	-	552	552
NER	2808	HYD	93764	3/30/2005	BRAKES	SWING BRAKE REPAIRS	156	1,788	1,944
NER	2808	HYD	120945	4/4/2005	ELECTRICAL	LIGHT BULBS	41	-	41
NER	2808	HYD	125633	4/26/2005	PREVENTATIVE MAINTENANCE	SERVICE AND REPAIR	175	432	607
NER	2808	HYD	116051	5/2/2005	PREVENTATIVE MAINTENANCE	REPAIR/ FABRICATION OF MATTS	4,954	10,896	15,850
NER	2808	HYD	98744	5/27/2005	DRIVE TRAIN	INSTALL NEW TRANSMISSON ON UNIT	31,086	3,792	34,878
NER	2808	HYD	130886	5/31/2005	PREVENTATIVE MAINTENANCE	UPPER KEEPS STAHLING OUT	10	288	298
NER	2808	HYD	114665	7/20/2005	PREVENTATIVE MAINTENANCE	PM-A SERVICE	42	240	282
NER	2808	HYD	142164	7/21/2005	ELECTRICAL	BULBS	61	-	61
NER	2808	HYD	146810	8/11/2005	PREVENTATIVE MAINTENANCE	FILTER	3	-	3

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
NER	2808	HYD	146643	8/11/2005	PREVENTATIVE MAINTENANCE	FUEL FILTER	3	-	3
NER	2808	HYD	150402	8/29/2005	ELECTRICAL	BATTERIES LOWER	207	-	207
NER	2808	HYD	151720	9/9/2005	PREVENTATIVE MAINTENANCE	SERVICE IS DUE	228	228	456
NER	2808	HYD	157661	10/3/2005	ELECTRICAL	OIL FILTER HOUSING NEEDS REPAIRED	-	144	144
NER	2808	HYD	158590	10/6/2005	PREVENTATIVE MAINTENANCE	MISSED PARTS ON 157661	21	-	21
NER	2808	HYD	159898	10/13/2005	HYDRAULIC	REPAIRED TELESCOPE WIRING	-	168	168
NER	2808	HYD	160461	10/28/2005	HYDRAULIC	INSTALL LIGHT ON BOOM	-	480	480
NER	2808	HYD	168975	11/28/2005	BRAKES	SWING BRAKE NEEDS REPAIRED	-	384	384
NER	2808	HYD	171684	11/30/2005	PREVENTATIVE MAINTENANCE	SERVICE IS DUE	42	-	42
NER	2808	HYD	171028	2/9/2006	HEATING AND AIR CONDITIONING	HEATER IN UPPER NEEDS REPAIRED	-	384	384
NER	2808	HYD	184539	3/31/2006	BOOM	BOOM CYLINDER LEAKS/NO SWING BRAKE/REAR LEFT OUTRIG	759	336	1,095
NER	2808	HYD	200281	4/13/2006	PREVENTATIVE MAINTENANCE	SERVICE IS DUE	41	-	41
NER	2808	HYD	205685	5/23/2006	INSPECTIONS	ANNUAL INSPECTION	32	948	980
NER	2808	HYD	208814	5/24/2006	PREVENTATIVE MAINTENANCE	SERVICE IS DUE	541	1,440	1,981
NER	2808	HYD	211156	5/31/2006	PREVENTATIVE MAINTENANCE	CONSUMING PARTS FROM LAST WO	73	-	73
NER	2808	HYD	212499	7/11/2006	PREVENTATIVE MAINTENANCE	SWING BRAKE NEEDS REPAIRED	2,795	2,100	4,895
NER	2808	HYD	221199	8/9/2006	PREVENTATIVE MAINTENANCE	COMPLETE WORK FROM LAST WO184539	-	1,704	1,704
NER	2808	HYD	234935	9/21/2006	ENGINE	SERVICE CALL-SSSI	495	696	1,191
NER	2808	HYD	240045	10/17/2006	DRIVE TRAIN	SERVICE CALL-POWER PIPING	-	240	240
NER	2808	HYD	241391	10/17/2006	ENGINE	ROUTINE MAINTENANCE	128	528	656
NER	2808	HYD	229955	11/8/2006	PREVENTATIVE MAINTENANCE	INDUCTION SWITCH/TIE ROD	2,830	3,228	6,058
NER	2808	HYD	243424	11/13/2006	ENGINE	SERVICE CALL-SUPERIOR ENERGY	72	96	168
NER	2808	HYD	253001	12/21/2006	PREVENTATIVE MAINTENANCE	IN-SHOP SERVICE	-	288	288
NER	2808	HYD	256555	1/18/2007	ELECTRICAL	ROUTINE MAINTENANCE	68	-	68
NER	2808	HYD	259802	2/1/2007	ENGINE	ROUTINE MAINTENANCE	123	192	315
NER	2808	HYD	258097	2/1/2007	DRIVE TRAIN	IN-SHOP SERVICE	33,396	4,872	38,268
NER	2808	HYD	256798	2/20/2007	DRIVE TRAIN	IN-SHOP REPAIRS	21	2,556	2,577
NER	2808	HYD	268645	2/28/2007	PREVENTATIVE MAINTENANCE	ROUTINE MAINTENANCE	135	-	135
NER	2808	HYD	265755	3/2/2007	POST RENTAL INSPECTIONS	ROUTINE MAINTENANCE	100	1,116	1,216
NER	2808	HYD	264267	3/13/2007	ELECTRICAL	IN-SHOP SERVICE	277	552	829
NER	2808	HYD	274260	3/30/2007	ENGINE	ROUTINE MAINTENANCE - ENGINE SERVICE DUE	89	648	737
NER	2808	HYD	273059	4/6/2007	HOIST / WINCH	SERVICE CALL-BUNTING GRAPHIC	-	372	372
NER	2808	HYD	281918	5/10/2007	INSPECTIONS	ON-SITE MAINTENANCE - ANNUAL INSPECTION DUE SOON	2,257	228	2,485
NER	2808	HYD	282595	5/18/2007	HYDRAULIC	SERVICE CALL - SIDLEY PRECAST	-	384	384
NER	2808	HYD	274932	5/29/2007	FRAME AND CHASSIS	ON-SITE SERVICE - OPERATOR ERROR	2,252	3,684	5,936
NER	2808	HYD	279875	5/30/2007	HOIST / WINCH	SERVICE CALL - SIDLEY PRECAST	282	1,788	2,070
NER	2808	HYD	288634	6/15/2007	ENGINE	ON-SITE MAINTENANCE - ENGINE SERVICE DUE	30	252	282
NER	2808	HYD	286894	6/15/2007	HOIST / WINCH	SERVICE CALL - SIDLEY PRECAST	972	2,688	3,660
NER	2808	HYD	302886	8/29/2007	ENGINE	ON-ROAD SERVICE	-	1,176	1,176
NER	2808	HYD	300031	9/7/2007	ENGINE	ON-SITE SERVICE	12	2,136	2,148
NER	2808	HYD	296484	9/14/2007	ENGINE	ROUTINE MAINTENANCE - SERVICE LOWER ENGINE	80	-	80
NER	2808	HYD	296307	9/14/2007	POST RENTAL INSPECTIONS	ROUTINE MAINTENANCE - OFF-RENT INSPECTION	566	2,352	2,918
NER	2808	HYD	308991	9/25/2007	ENGINE	DRIVER REPORTED- UPPER ENGINE SHUTTING OFF	3	180	183
NER	2808	HYD	300653	10/9/2007	TIRES	IN-SHOP REPAIR / TIRE FLAT	5,270	-	5,270
NER	2808	HYD	313811	10/29/2007	TIRES	ROAD CALL TIRES REPAIR	265	-	265
NER	2808	HYD	312952	10/30/2007	PREVENTATIVE MAINTENANCE	IN SHOP SERVICE	194	1,884	2,078
NER	2808	HYD	318992	11/18/2007	TIRES	REPAIR TIRE	1,950	-	1,950
NER	2808	HYD	318183	12/7/2007	PREVENTATIVE MAINTENANCE	IN SHOP SERVICE-STEERING ROD BENT/TRANNY	-	1,176	1,176
NER	2808	HYD	324944	12/26/2007	PREVENTATIVE MAINTENANCE	PM-SERVICE UPPER- OILER WILL DO SERVICE AT JOB	34	264	298

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
NER	2808	HYD	340750	2/15/2008	INSPECTIONS	INSPECTION	-	96	96
NER	2808	HYD	344803	3/27/2008	ELECTRICAL	OPERATOR REPORTED - ALTERNATOR LIGHT ON	221	120	341
NER	2808	HYD	343340	3/27/2008	PREVENTATIVE MAINTENANCE	SERVICE ENGINE UPPER	2,350	528	2,878
NER	2808	HYD	346397	5/1/2008	INSPECTIONS	ANNUAL INSPECTION	-	528	528
NER	2808	HYD	360991	6/5/2008	PREVENTATIVE MAINTENANCE	PM-ENGINE SERVICE UPPER & LOWER	106	-	106
NER	2808	HYD	360587	6/9/2008	ELECTRICAL	SERVICE CALL-ALTERNATOR BAD	277	276	553
NER	2808	HYD	368939	7/29/2008	PREVENTATIVE MAINTENANCE	PM-ENGINE SERVICE-UPPER	41	204	245
NER	2808	HYD	373861	8/21/2008	COMPUTER SYSTEMS	COMPUTER ANGLE ERRATIC	-	588	588
NER	2808	HYD	376016	9/12/2008	PREVENTATIVE MAINTENANCE	PM-ENGINE SERVICE -UPPER	41	120	161
NER	2808	HYD	376084	9/18/2008	HYDRAULIC	REPAIR HYDRAULIC SYSTEM IN UPPER	828	2,400	3,228
NER	2808	HYD	379345	10/27/2008	DRIVE TRAIN	REPAIR OF SHIFTER	-	288	288
NER	2808	HYD	383808	11/25/2008	DRIVE TRAIN	TRANSMISSION PROBLEM	65,424	4,392	69,816
NER	2808	HYD	393787	2/3/2009	ELECTRICAL	ORDER NEW ROTATING LIGHT	394	1,536	1,930
NER	2808	HYD	403059	3/10/2009	TIRES	TIRE SERVICE RIGHT SIDE TIRE GOING FLAT	326	-	326
NER	2808	HYD	399829	3/23/2009	PREVENTATIVE MAINTENANCE	CRANE NEEDS WIPERS ON LOWER	114	672	786
NER	2808	HYD	406947	4/2/2009	PREVENTATIVE MAINTENANCE	PM-ENGINE SERVICE DUJE	78	384	462
NER	2808	HYD	410984	4/24/2009	INSPECTIONS	PREP FOR INSPECTION	241	768	1,009
NER	2808	HYD	413951	5/18/2009	ELECTRICAL	SERVICE CALL-COUNTERWEIGHTS WILL NOT PIN	420	768	1,188

Work Order Estimate

Work Order #	98744
Branch	WMF
Bill to Branch	WMF
Customer Number	0
Equipment Model	AC395
Equipment Class	150
Description of Problem	TRANS MODEL #16S221 WSK-400 SERIAL #502820 TRANS ASSY# 4130 065 105 RO#C2975
Work Order Desc.	INSTALL NEW TRANSMISSION ON UNIT
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	NICOLE
Date Opened	12/15/2004
Equipment Number	2808
Equipment Make	DEMAG
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$3,792.00
Parts Total \$	\$0.00	\$31,085.81
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$34,877.81

Labor

Code	Description	Estimate	Actual
5627	REMOVE TRANSMISSION	0	\$0.00
Totals:		0	\$0.00

Parts

Code	Description	Estimate	Actual
HW	OUTSIDE REBUILD HARDWARE	0	\$0.00
		0	\$0.00
Totals:		0	\$0.00

Other

Code	Description	Estimate	Actual
	Nothing Found		
Totals:			

Work Order Estimate

Work Order #	116051
Branch	WMF
Bill to Branch	WMF
Customer Number	0
Equipment Model	AC395
Equipment Class	150
Description of Problem	
Work Order Desc.	REPAIR/ FABRICATION OF MATTS
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	TCARLETTI
Date Opened	03/14/2005
Equipment Number	2808
Equipment Make	DEMAG
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$11,196.00
Parts Total \$	\$0.00	\$4,954.29
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$16,150.29

Labor

2940	DO NOT USE	0	\$0.00	20	\$1,020.00
4727	PAINT EQUIPMENT	0	\$0.00	107	\$5,136.00
4931	INSPECT SWING BRAKE & 360 LOCK OPERATION	0	\$0.00	7	\$336.00
5270	INSPECT LIGHTS	0	\$0.00	9	\$432.00
5354	WELDING REPAIRS	0	\$0.00	20	\$960.00
5381	INSPECT WIRING	0	\$0.00	21	\$1,008.00
5702	PERFORMED FABRICATION WORK	0	\$0.00	48	\$2,304.00
Totals:		0	\$0.00	232	\$11,196.00

Parts

	CABLE	0	\$0.00	1	\$425.26
CB	CABLE ASSEMBLY	0	\$0.00	53	\$190.80
EL	ELECTRICAL	0	\$0.00	1	\$135.70
FL	FILTER	0	\$0.00	1	\$20.60
HW	HARDWARE	0	\$0.00	5	\$97.20
TP	TRANSMISSION PARTS	0	\$0.00	1	\$4,084.73
Totals:		0	\$0.00	62	\$4,954.29

Other

	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	258097
Branch	WMF
Bill to Branch	WMF
Customer Number	0
Equipment Model	AC395
Equipment Class	150
Description of Problem	REPLACE BAD TRANSMISSION
Work Order Desc.	IN-SHOP SERVICE
Reviewed by	Dennis Wagner
Reviewers Comments	ok with me what about jim
Review Date	01/09/2007

Authorized By	Approved Jim Workman
Authorized Date	01/09/2007
Created By	MIKEA
Date Opened	01/09/2007
Equipment Number	2808
Equipment Make	DEMAG
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$3,840.00	\$4,872.00
Parts Total \$	\$36,350.00	\$33,395.50
Misc Charge	\$0.00	\$0.00
Total \$	\$40,190.00	\$38,267.50

Labor

Code	Description	Hours	Rate	Est. Hours	Est. Amount
4528	INSPECT STEERING REAR	0	\$0.00	47.5	\$2,280.00
5881	REPLACE TRANSMISSION	80	\$3,840.00	54	\$2,592.00
Totals:		80	\$3,840.00	101.5	\$4,872.00

Parts

Code	Description	Quantity	Unit Price	Est. Qty	Est. Amount
	FUEL DISPENSED-FILL UP BRR	100	\$3,000.00	0	\$0.00
EL	ELECTRICAL	0	\$0.00	1	\$43.33
EP	ENGINE PARTS	0	\$0.00	1	\$2.17
HO	HYDRAULIC OIL	0	\$0.00	100	\$0.00
TR	WHOLE TRANSMISSIONS	1	\$33,350.00	1	\$33,350.00
Totals:		101	\$36,350.00	103	\$33,395.50

Other

	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	383808
Branch	WMF
Bill to Branch	WMF
Customer Number	0
Equipment Model	AC395
Equipment Class	150
Description of Problem	
Work Order Desc.	TRANSMISSION PROBLEM
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	
Authorized Date	
Created By	DAVEZ
Date Opened	10/21/2008
Equipment Number	2808
Equipment Make	DEMAG
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$4,392.00
Parts Total \$	\$0.00	\$65,424.27
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$69,816.27

Labor

		0	\$0.00	2	\$132.00
1					
4544	INSPECT TRANSMISSION	0	\$0.00	34	\$2,064.00
5627	REMOVE TRANSMISSION	0	\$0.00	5	\$240.00
5881	REPLACE TRANSMISSION	0	\$0.00	36.5	\$1,956.00
Totals:		0	\$0.00	77.5	\$4,392.00

Parts

MO	MOTOR OIL	0	\$0.00	3	\$221.97
TR	WHOLE TRANSMISSIONS	0	\$0.00	1	\$65,202.30
Totals:		0	\$0.00	4	\$65,424.27

Other

	Nothing Found				
Totals:					