

Maxim Crane Works, LP

5 Year Maintenance History Summary

186

150 ton

MANITOWOC 4000W

1993

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	186	CC	1402	4/30/2003	ELECTRICAL	REPAIR ATB SYSTEM	-	48	48
NER	186	CC	1624	5/16/2003	FRAME AND CHASSIS	SERVICE TRACK ASSY	-	240	240
NER	186	CC	1625	5/16/2003	PREVENTATIVE MAINTENANCE	PM SERVICE	17	360	377
NER	186	CC	2857	6/13/2003	BOOM	CHECK OUT SHEAVE BAD BRG	987	456	1,443
NER	186	CC	9140	8/14/2003	FABRICATION	BUILD BARRICADES FOR CRANE	-	264	264
NER	186	CC	14223	9/13/2003	ELECTRICAL	UNIT WILL NOT START	0	336	336
NER	186	CC	15547	9/27/2003	HOIST / WINCH	HOIST AIR CYL LEAKING	-	192	192
NER	186	CC	25598	12/11/2003	PREVENTATIVE MAINTENANCE	PM SERVICE DUE	23	408	431
NER	186	CC	29362	12/31/2003	ENGINE	NOISE AT ENGINE	-	384	384
NER	186	CC	36701	1/31/2004	ENGINE	CHECK ENGINE AND ELECTRICAL	-	144	144
NER	186	CC	38325	2/19/2004	PREVENTATIVE MAINTENANCE	PM SERVICE	72	720	792
NER	186	CC	46209	3/25/2004	PREVENTATIVE MAINTENANCE	CHECK AIR FILTERS	-	240	240
NER	186	CC	49962	3/29/2004	BOOM	AIR LEAK WHEN BOOMING DOWN	-	72	72
NER	186	CC	52633	4/15/2004	DRIVE TRAIN	WILL NOT STEER	-	312	312
NER	186	CC	59790	5/25/2004	PREVENTATIVE MAINTENANCE	PM SERVICE DUE	57	1,344	1,401
NER	186	CC	56670	5/28/2004	DRIVE TRAIN	CHECK STEERING	3,047	7,128	10,175
NER	186	CC	64068	6/9/2004	FRAME AND CHASSIS	MAKE FINAL ADJUSTMENTS, CHECK FLUIDS, ASSIST WITH	-	1,056	1,056
NER	186	CC	67285	7/2/2004	DRIVE TRAIN	REPAIR SWING	-	192	192
NER	186	CC	70928	7/21/2004	CABLE/WIRE	REPLACE HOIST CABLE	1,596	1,536	3,132
NER	186	CC	80852	9/21/2004	ELECTRICAL	REPAIR ELECT PROBLEM	129	600	729
NER	186	CC	101826	1/23/2005	ELECTRICAL	REPLACE BATTERIES & STARTER	170	600	770
NER	186	CC	106978	2/7/2005	PREVENTATIVE MAINTENANCE	REPAIR AS NEEDED/ SERVICE	1,383	2,712	4,095
NER	186	CC	111112	2/28/2005	CABLE/WIRE	REPAIR HOIST LINE	-	1,308	1,308
NER	186	CC	122298	4/15/2005	PREVENTATIVE MAINTENANCE	SERVICE UNIT	58	48	106
NER	186	CC	121295	4/22/2005	PREVENTATIVE MAINTENANCE	CRANE REPAIR	297	-	297
NER	186	CC	126941	6/2/2005	ELECTRICAL	REPAIR ATB	-	360	360
NER	186	CC	138141	6/29/2005	INSPECTIONS	ANNUAL INSPECTION ON UNIT AT THE CUSTOMERS REQUEST	-	192	192
NER	186	CC	135830	7/28/2005	ENGINE	REPAIR AS PER STEP'S CK BOOM KICK OUT CK ENG FOR	3,674	240	3,914
NER	186	CC	144584	9/12/2005	CABLE/WIRE	REPAIR HOIST CABLE	-	1,188	1,188
NER	186	CC	152835	10/1/2005	BOOM	TRAVEL TO JACKSONVILLE, FL TO WLED ATB BOX AND	-	564	564
NER	186	CC	157555	10/18/2005	ENGINE	FUEL PROBLEM AND BOOM CUT-OFF SWITCH	-	432	432
NER	186	CC	164349	11/16/2005	PREVENTATIVE MAINTENANCE	OC SERVICE	19	468	487
NER	186	CC	175938	12/21/2005	CABLE/WIRE	REPLACE BOOM HOIST CABLE	1,741	384	2,125
NER	186	CC	176301	12/22/2005	PREVENTATIVE MAINTENANCE	OPEN TO POST TIME TURNED IN LATE	-	384	384
NER	186	CC	177153	1/2/2006	FRAME AND CHASSIS	OIL LEAK /BARRIER MOUNTS	16	168	184
NER	186	CC	177779	1/16/2006	CABLE/WIRE	REPLACE MAIN HOIST CABLE	3,410	1,368	4,778
NER	186	CC	181118	1/29/2006	CAB	REPLACE BROKEN GLASS	487	-	487
NER	186	CC	180018	1/29/2006	ENGINE	CHECK OVEHEATING PROBLEM	649	480	1,129
NER	186	CC	184402	2/17/2006	BRAKES	ADJUST DRUM BRAKES	113	384	497
NER	186	CC	188826	3/1/2006	CABLE/WIRE	NEED TO REWRAP CABLE	-	984	984
NER	186	CC	194777	3/21/2006	BOOM	CHECK SHEAVE FOR WEAR	-	144	144
NER	186	CC	194546	3/21/2006	CABLE/WIRE	RESPOOL HOIST CABLE	-	864	864
NER	186	CC	194542	3/22/2006	PREVENTATIVE MAINTENANCE	PM SERVICE	104	288	392
NER	186	CC	189118	4/10/2006	BRAKES	WILL NOT SWING PROPERLY,CHECK CABLE AS NEEDED, AND	-	192	192
NER	186	CC	203610	4/28/2006	DRIVE TRAIN	RIGHT SIDE NOT TRAVELING CORRECTLY	-	240	240
NER	186	CC	206683	5/11/2006	INSPECTIONS	ANNUAL INSPECTION	-	288	288
NER	186	CC	210928	5/31/2006	DRIVE TRAIN	WILL NOT TRAVEL	-	192	192
NER	186	CC	207181	5/31/2006	CAB	REPLACE FRONT GLASS	270	-	270
NER	186	CC	211294	6/2/2006	PREVENTATIVE MAINTENANCE	PM SERVICE	41	576	617

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
NER	186	CC	213156	6/15/2006	WELDING	BAR ON TOP BROKE NEED TO WELD	-	216	216
NER	186	CC	218229	7/21/2006	LOAD DRUM / ROTEX	SPRING ON JOHNSON BAR BROKE, AIR LEAK	424	780	1,204
NER	186	CC	216597	7/31/2006	CAB	REPAIR UPPER GLASS, REPLACE FLOW METER	581	-	581
NER	186	CC	227182	8/16/2006	PREVENTATIVE MAINTENANCE	PM SERVICE	64	456	520
NER	186	CC	228352	8/23/2006	PNEUMATIC SYSTEMS	AIR LEAK AT CONTROL VALVE	-	192	192
NER	186	CC	240915	10/13/2006	COMPUTER SYSTEMS	BOOM KICK OUT NOY WORKING PROPERLY	-	192	192
NER	186	CC	240327	10/13/2006	LOAD DRUM / ROTEX	NOISE IN WINCH AREA	487	480	967
NER	186	CC	244587	10/27/2006	WELDING	WELD BARRACADES ON UNIT	-	456	456
NER	186	CC	241796	10/27/2006	PREVENTATIVE MAINTENANCE	PM SERVICE	16	1,152	1,168
NER	186	CC	242590	12/19/2006	CAB	REPLACE OPERATORS SEAT	145	432	577
NER	186	CC	255416	12/27/2006	LOAD DRUM / ROTEX	MAIN HOIST CLUTCH NEEDS ADJUSTING	-	132	132
NER	186	CC	259818	1/19/2007	PREVENTATIVE MAINTENANCE	REPLACE OPERATOR AND LOAD CHART	149	-	149
NER	186	CC	259084	1/19/2007	PREVENTATIVE MAINTENANCE	PM SERVICE	85	1,104	1,189
NER	186	CC	263148	2/2/2007	WELDING	REPAIR BENT LACINGS	420	-	420
NER	186	CC	262844	2/28/2007	RIGGING	SWIVEL FOR BALL OUT OF TOLLERENCE HOOK CRACKED	1,189	240	1,429
NER	186	CC	264018	2/28/2007	INSPECTIONS	PREP CRANE FOR RENT	2,791	2,784	5,575
NER	186	CC	264247	2/28/2007	CAB	PAINT MACHINE INSIDE, 163FT 22 BOOM, 150 FT 23 BOO	38,836	2,088	40,924
NER	186	CC	271123	3/13/2007	BOOM	TOWER CAP PAINT AND SAND	3,500	-	3,500
NER	186	CC	274803	3/28/2007	BOOM	REPLACE TOWER CAPS BUMPER STOPS	407	-	407
NER	186	CC	280484	5/1/2007	INSPECTIONS	ANNUAL CRANE INSPECTION	-	192	192
NER	186	CC	281055	5/4/2007	ENGINE	REPLACE HOSES ON THE WATER PUMP	770	-	770
NER	186	CC	281780	5/6/2007	ELECTRICAL	INSTALL BOOM ANGLE INDICATOR	977	96	1,073
NER	186	CC	284226	5/24/2007	ENGINE	CHECK ENGINE LEAKING OIL SHUT DOWN	544	984	1,528
NER	186	CC	284783	6/8/2007	ENGINE	REPLACE ENGINE DUE TO BLOWN SLEEVE IN ENGINE BLOCK	20,757	7,404	28,171
NER	186	CC	291178	6/25/2007	ENGINE	REPLACE PULLY ON LUBE PUMP	24	252	276
NER	186	CC	295467	7/20/2007	ENGINE	INSPECT ENGINE FOR DAMAGE INV NOT ON ORIG INV	570	192	762
NER	186	CC	297212	7/26/2007	PREVENTATIVE MAINTENANCE	PM SERVICE	34	324	358
NER	186	CC	298581	7/30/2007	HYDRAULIC	CHECK CHARGE PUMP	44	192	236
NER	186	CC	299909	8/21/2007	BOOM	A2B CHAIN REPAIR	-	120	120
NER	186	CC	303707	8/27/2007	COMPUTER SYSTEMS	CHECK ELECTRICAL SHORT	-	168	168
NER	186	CC	306571	9/12/2007	PREVENTATIVE MAINTENANCE	PM A SERVICE	55	480	535
NER	186	CC	312541	10/11/2007	INSPECTIONS	ANNUAL CRANE INSPECTION AND SETUP	-	192	192
NER	186	CC	318640	11/11/2007	PREVENTATIVE MAINTENANCE	PM SERVICE	60	312	372
NER	186	CC	319361	11/20/2007	CABLE/WIRE	INSPECT CRANE MAIN HOIST LINE AND BRAKE ADJUSTMENT	390	288	678
NER	186	CC	318202	11/20/2007	CAB	REPAIR A2B WEIGHT	-	984	984
NER	186	CC	308992	11/27/2007	INSPECTIONS	OFF RENT INSPECTION	962	1,032	1,994
NER	186	CC	325175	12/12/2007	CABLE/WIRE	REPLACE MAIN DRUM CABLE	3,398	-	3,398
NER	186	CC	325648	12/18/2007	HOIST / WINCH	CHECK MAIN DRUM BRAKES AND ADJUST	-	960	960
NER	186	CC	322915	12/26/2007	COMPUTER SYSTEMS	INSTALL LOAD CELL SYSTEM	6,993	456	7,449
NER	186	CC	327109	12/29/2007	PREVENTATIVE MAINTENANCE	PM SERVICE	65	324	389
NER	186	CC	327549	12/31/2007	COMPUTER SYSTEMS	CHECK A2B	-	1,176	1,176
NER	186	CC	339267	2/6/2008	PREVENTATIVE MAINTENANCE	PM SERVICE	52	528	580
NER	186	CC	340087	2/19/2008	COMPUTER SYSTEMS	CHECK A2B	-	384	384
NER	186	CC	342367	2/26/2008	INSPECTIONS	3RD PARTY INSPECTION	486	-	486
NER	186	CC	341938	3/6/2008	CAB	INSPECT THE CRANE CHECK OVER	421	2,592	3,013
NER	186	CC	347141	3/28/2008	LOADING/UNLOADING	TEAR DOWN AND BRING TO THE YARD FOR CLEANING	-	888	888
NER	186	CC	353680	4/25/2008	INSPECTIONS	ANNUAL CRANE CERT REASSEMBLE	16	840	856
NER	186	CC	356690	5/22/2008	ENGINE	CONVERTER LEAK	-	384	384
NER	186	CC	354217	5/22/2008	ELECTRICAL	CHANGE OUT BATTERIES	309	168	477

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
NER	186	CC	359039	5/30/2008	COMPUTER SYSTEMS	CHECK A2B OPS	-	528	528
NER	186	CC	360680	6/10/2008	COMPUTER SYSTEMS	REPAIR A2B CHAIN CHECK AIR LEAK	52	264	316
NER	186	CC	364650	6/27/2008	COMPUTER SYSTEMS	CHECK ELECTRICAL SHORT A2B	-	528	528
NER	186	CC	367822	7/22/2008	COMPUTER SYSTEMS	REPAIR A2B	-	276	276
NER	186	CC	372120	8/20/2008	INSPECTIONS	OFF RENT IN OPERATOR MAINTAINED	-	768	768
NER	186	CC	374840	8/30/2008	PREVENTATIVE MAINTENANCE	CLEN TRACKS AND HOUSE	-	528	528
NER	186	CC	376815	9/19/2008	PREVENTATIVE MAINTENANCE	PM SERVICE DUE	52	384	436
NER	186	CC	378147	10/3/2008	BOOM	REPLACE BOOM STOPS	7,711	-	7,711
NER	186	CC	374959	10/10/2008	HOIST / WINCH	NEED TO REPLACE BOOM HOIST CABLE AND PENET LINES	6,190	4,620	10,810
NER	186	CC	383943	10/29/2008	CABLE/WIRE	UNIT NEEDS MAIN ROPE REPLACE PER ROB SCULTZ WE	4,186	1,152	5,338
NER	186	CC	384754	11/7/2008	CAB	REPLACE BROKEN GLASS	239	1,608	1,847
NER	186	CC	396684	1/16/2009	PREVENTATIVE MAINTENANCE	GO TO THE UNIT WITH THE POSSABLE BUYERS	-	252	252
NER	186	CC	403662	3/19/2009	ENGINE	NEED TO CHECK THROTTLE CABLE IF IT IS DAMAGED WE	-	96	96
NER	186	CC	398968	3/19/2009	INSPECTIONS	ANNUAL CRANE INSPECTION DUE	-	144	144
NER	186	CC	401025	3/19/2009	PREVENTATIVE MAINTENANCE	PM SERVICE DUE	118	144	262
NER	186	CC	406837	3/27/2009	ENGINE	NEED TO REPLACE BELTS ON ENGINE	-	192	192
NER	186	CC	412700	4/30/2009	PREVENTATIVE MAINTENANCE	PM SERVICE DUE CUSTOMER WILL BE CHARGED FOR LABOR	57	240	297
NER	186	CC	415359	5/15/2009	HYDRAULIC	UNIT HAS A HYDRAULIC LEAK	-	336	336

Work Order Estimate

Work Order #	56670
Branch	POM
Bill to Branch	POM
Customer Number	0
Equipment Model	4000W
Equipment Class	150
Description of Problem	REPLACE HOIST CABLE CLEAN AND PAINT
Work Order Desc.	CHECK STEERING
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	LARRYA
Date Opened	05/03/2004
Equipment Number	186
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$7,128.00
Parts Total \$	\$0.00	\$2,832.50
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$9,960.50

Labor

Labor					
		0	\$0.00	141	\$7,128.00
Totals:		0	\$0.00	141	\$7,128.00

Parts

Parts					
		0	\$0.00	5	\$1,674.11
HW	PIN HARDWARE	0	\$0.00	22	\$10.89
WR	WIRE ROPE	0	\$0.00	850	\$1,147.50
Totals:		0	\$0.00	877	\$2,832.50

Other

Other				
Totals:				

Work Order Estimate

Work Order #	264247
Branch	ORL
Bill to Branch	POM
Customer Number	0
Equipment Model	4000W
Equipment Class	150
Description of Problem	M, TOWER CAP , JIB, DECALS, BALL WEIGHTS, TRACKS, CARBODY LACEING REPAIRS TOWER CAP AND WORKING BOOM
Work Order Desc.	PAINT MACHINE INSIDE, 163FT 22 BOOM, 150 FT 23 BOO
Reviewed by	Rob Schultz
Reviewers Comments	ok w/ me
Review Date	02/07/2007

Authorized By	Approved Bryan Carlisle
Authorized Date	02/07/2007
Created By	TSCHAEFFER
Date Opened	02/09/2007
Equipment Number	186
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$2,472.00
Parts Total \$	\$33,445.00	\$38,835.86
Misc Charge	\$0.00	\$0.00
Total \$	\$33,445.00	\$41,307.86

Labor

Code	Description	Estimate	Actual	Rate	Total
4991	INSPECT BOOM ROLLERS	0	\$0.00	28.5	\$1,464.00
5354	WELDING REPAIRS	0	\$0.00	0	\$0.00
5654	PREP AND PAINT SHEET METAL, BOOM & MISC PARTS	0	\$0.00	7	\$336.00
6115	INSPECT TOWER BEARING AND PINS	0	\$0.00	14	\$672.00
Totals:		0	\$0.00	49.5	\$2,472.00

Parts

Code	Description	Estimate	Actual	Rate	Total
	OUTSIDE REBUILD	0	\$0.00	1	\$487.50
	OUTSIDE PAINTING	0	\$0.00	1	\$13,095.00
	OUTSIDE PAINTING	0	\$0.00	1	\$9,750.00
	OUTSIDE PAINTING	0	\$0.00	1	\$0.00
	OUTSIDE PAINTING	0	\$0.00	1	\$1,350.00
	OUTSIDE REBUILD	0	\$0.00	1	\$1,690.00
	OUTSIDE REBUILD	0	\$0.00	1	\$585.00
	OUTSIDE REBUILD	0	\$0.00	1	\$285.61
	OUTSIDE PAINTING	0	\$0.00	1	\$4,000.00
	OUTSIDE PAINTING	0	\$0.00	1	\$1,000.00
	OUTSIDE PAINTING	0	\$0.00	1	\$3,000.00
	OUTSIDE PAINTING	0	\$0.00	1	\$1,800.00
	OUTSIDE PAINTING	1	\$31,395.00	0	\$0.00
	OUTSIDE REBUILD	1	\$1,200.00	0	\$0.00
DC	DECALS	1	\$850.00	2	\$987.57
ML	METAL STOCK	0	\$0.00	144	\$805.18
Totals:		3	\$33,445.00	158	\$38,835.86

Other

	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	284783
Branch	ORL
Bill to Branch	ORL
Customer Number	0
Equipment Model	4000W
Equipment Class	150
Description of Problem	
Work Order Desc.	REPLACE ENGINE
Reviewed by	Rob Schultz
Reviewers Comments	ok
Review Date	05/18/2007

Authorized By	Approved Bryan Carlisle
Authorized Date	05/21/2007
Created By	TSCHAEFFER
Date Opened	05/21/2007
Equipment Number	186
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$9,600.00	\$7,404.00
Parts Total \$	\$20,600.00	\$20,767.16
Misc Charge	\$0.00	\$0.00
Total \$	\$30,200.00	\$28,171.16

Labor

Code	Description	Hours	Rate	Quantity	Total
5469	REMOVE & REPLACE ENGINE	200	\$9,600.00	96	\$5,712.00
6020	TRAVEL TIME TO AND FROM SERVICE CALL	0	\$0.00	25	\$1,692.00
Totals:		200	\$9,600.00	121	\$7,404.00

Parts

Code	Description	Hours	Rate	Quantity	Total
.	FREIGHT ON PARTS	0	\$0.00	1	\$2,856.49
.	FREIGHT ON PARTS	0	\$0.00	1	\$1,307.73
.	OUTSIDE REBUILD	0	\$0.00	1	\$706.45
.	OUTSIDE REBUILD	1	\$20,000.00	0	\$0.00
BL	BELT	0	\$0.00	6	\$101.61
CA	CARRIER	1	\$600.00	0	\$0.00
EL	ELECTRICAL	0	\$0.00	1	\$66.69
EN	WHOLE ENGINES	0	\$0.00	2	\$15,460.00
EX	EXHAUST SYSTEM	0	\$0.00	1	\$69.35
FL	FILTER	0	\$0.00	3	\$9.11
HS	HOSES	0	\$0.00	6	\$112.54
HW	HARDWARE	0	\$0.00	4	\$7.56
XX	SALES TAX	0	\$0.00	3	\$69.63
Totals:		2	\$20,600.00	29	\$20,767.16

Other

Nothing Found				
Totals:				

Work Order Estimate

Work Order #	374959
Branch	BAL
Bill to Branch	CRL
Customer Number	0
Equipment Model	4000W
Equipment Class	150
Description of Problem	PER ROB SCHULTZ. HAD TO REPLACE AIR LINE ON THE TRAILER HAULING UNIT BOOM HOIST CABLE CAME UNRAVELED AND BUTSTED AIR LINE
Work Order Desc.	NEED TO REPLACE BOOM HOIST CABLE AND PENET LINES
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	ROBERTP
Date Opened	08/25/2008
Equipment Number	186
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$2,052.00
Parts Total \$	\$0.00	\$6,190.47
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$8,242.47

Labor

		0	\$0.00	32.5	\$1,644.00
1	TRAVEL TIME TO AND FROM SERVICE CALL	0	\$0.00	8	\$408.00
6020					
Totals:		0	\$0.00	40.5	\$2,052.00

Parts

		0	\$0.00	4	\$4,301.92
R1	RIGGING GEAR	0 <td style="text-align: right;">\$0.00 <td style="text-align: right;">685 <td style="text-align: right;">\$1,888.55</td> </td></td>	\$0.00 <td style="text-align: right;">685 <td style="text-align: right;">\$1,888.55</td> </td>	685 <td style="text-align: right;">\$1,888.55</td>	\$1,888.55
WR	WIRE ROPE	0 <td style="text-align: right;">\$0.00 <td></td> <td></td> </td>	\$0.00 <td></td> <td></td>		
Totals:		0 <td style="text-align: right;">\$0.00 <td style="text-align: right;">689 <td style="text-align: right;">\$6,190.47</td> </td></td>	\$0.00 <td style="text-align: right;">689 <td style="text-align: right;">\$6,190.47</td> </td>	689 <td style="text-align: right;">\$6,190.47</td>	\$6,190.47

Other

Nothing Found					
Totals:					