

Maxim Crane Works, LP

5 Year Maintenance History Summary

1983

90 ton

MANITOWOC 222

1990

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
SER	1983	CC	31346	1/8/2004	PREVENTATIVE MAINTENANCE	REPLACE MASTER CLUTCH. R&M EQUIPMENT DID ALL OF	470	-	470
SER	1983	CC	46483	4/17/2004	HOIST / WINCH	REDECAL,AUX CABLE,PRESSURE WASH	925	3,408	4,333
SER	1983	CC	54374	4/30/2004	CABLE/WIRE	BOOM HOIST CABLE	-	3,024	3,024
SER	1983	CC	56680	5/3/2004	CABLE/WIRE	AUX CABLE BAD	990	192	1,182
SER	1983	CC	57368	5/12/2004	ELECTRICAL	AUX WINCH CONTROLLER	485	468	953
SER	1983	CC	64016	6/14/2004	PREVENTATIVE MAINTENANCE	SERVICE,CAB	182	624	806
SER	1983	CC	65058	7/6/2004	PREVENTATIVE MAINTENANCE	ROUTINE MAINTANENCE	834	2,652	3,486
SER	1983	CC	78469	8/24/2004	PREVENTATIVE MAINTENANCE	SERVICE	112	-	112
SER	1983	CC	89107	11/1/2004	ASSEMBLY NON BILLABLE	ASSEMBLE MACHINE IN LOU.,KY	-	1,968	1,968
SER	1983	CC	69085	11/8/2004	BRAKES	BRAKES	453	10,188	10,641
SER	1983	CC	91367	11/17/2004	ELECTRICAL	CHECK CAB HEATER.	815	2,004	2,819
SER	1983	CC	96216	12/7/2004	CABLE/WIRE	INSTALL LOAD CELL, CHANGE FROM MAIN LINE TO AUX.	-	336	336
SER	1983	CC	96491	12/8/2004	PREVENTATIVE MAINTENANCE	MAKE SPACER FOR LOAD CELL. MAKE SHIMS FOR TRACK.	-	336	336
SER	1983	CC	97121	12/13/2004	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED.	53	228	281
SER	1983	CC	88446	12/17/2004	PREVENTATIVE MAINTENANCE	SERVICE ENGINE. CHECK OVER. REPLACE BRAKE CHAMBER	2,102	3,144	5,246
SER	1983	CC	98715	12/28/2004	ENGINE	CHECK STARTING CIRCUIT. CRANKS BUT NO START.	-	528	528
SER	1983	CC	102849	1/11/2005	ENGINE	FUEL CRANE.	-	168	168
SER	1983	CC	104906	1/24/2005	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED.	-	252	252
SER	1983	CC	106036	1/28/2005	ELECTRICAL	WILL NOT START, CRANKS BUT NO START.	-	72	72
SER	1983	CC	106668	2/3/2005	PREVENTATIVE MAINTENANCE	START CRANE FOR ASSEMBLY CREW	271	600	871
SER	1983	CC	111909	3/1/2005	ELECTRICAL	CHECKED FUEL PROBLEM. REPLACED FILTERS FOUND A	189	228	417
SER	1983	CC	109722	3/3/2005	HOIST / WINCH	CHECK AND REPAIR HOIST BRAKE PROBLEM.	581	3,036	3,617
SER	1983	CC	118841	3/25/2005	ENGINE	FUEL PROBLEM	28	192	220
SER	1983	CC	119927	4/4/2005	PREVENTATIVE MAINTENANCE	ENGINE SERVICED ON 03/30/05 @ 1,566 HOURS.	91	144	235
SER	1983	CC	119958	4/4/2005	INSPECTIONS	ANNUAL INSPECTION DONE ON 03/30/05 @ 1,566 HOURS.	-	108	108
SER	1983	CC	109596	4/9/2005	ELECTRICAL	REPLACE SOLINOID VALVE FOR REAR HOIST BRAKE	1,390	1,440	2,830
SER	1983	CC	109595	4/9/2005	HOIST / WINCH	AIR LEAK AT MANIFOLD VALVE	-	384	384
SER	1983	CC	125449	5/31/2005	ELECTRICAL	JUMP START REPLACE ALTERNATOR	185	480	665
SER	1983	CC	110567	6/20/2005	PREVENTATIVE MAINTENANCE	SERVICE ENGINE	94	288	382
SER	1983	CC	142158	7/26/2005	PREVENTATIVE MAINTENANCE	SERVICE ENGINE	93	384	477
SER	1983	CC	143322	7/27/2005	PREVENTATIVE MAINTENANCE	REAR DRUM BRAKE CHAMBER LEAKING	42	-	42
SER	1983	CC	143982	8/2/2005	CABLE/WIRE	REPLACE BOOM HOSIT CABLE (NORMAL WEAR)	475	456	931
SER	1983	CC	139984	8/30/2005	BOOM	REPLACE FLEETING SHEAVES UNDER MANITOWOC POLICY	2,615	792	3,407
SER	1983	CC	110568	10/13/2005	PREVENTATIVE MAINTENANCE	SERVICE ENGINE 10/11/05 @ 2416 HOURS	91	648	739
SER	1983	CC	162135	10/24/2005	DISASSEMBLY NON BILLABLE	DISASSEMBLE CRANE FOR TRANSPORT TO LOU. JOBSITE	-	288	288
SER	1983	CC	165218	11/18/2005	COMPUTER SYSTEMS	CHECK ATB SYSTEM.	448	120	568
SER	1983	CC	165169	11/18/2005	PAINTING	PREP AND PAINT JOB	-	252	252
SER	1983	CC	167206	11/18/2005	HYDRAULIC	CHECK PUMP DRIVE COUPLER, LOST ALL FUNCTIONS.	-	168	168
SER	1983	CC	165694	11/18/2005	ELECTRICAL	CHECK BATTERIES, JUMP START ENGINE. CHECK CHARGING	-	72	72
SER	1983	CC	169095	11/18/2005	PNEUMATIC SYSTEMS	CHECK REAR WINCH, NOT WORKING.	-	48	48
SER	1983	CC	169911	11/23/2005	HOIST / WINCH	CHECK AUX HOIST WINCH.	-	144	144
SER	1983	CC	135289	12/16/2005	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED.	99	132	231
SER	1983	CC	173869	12/16/2005	HEATING AND AIR CONDITIONING	CHECK CAB HEATER, WILL NOT GET HOT.	-	192	192
SER	1983	CC	177274	1/13/2006	COMPUTER SYSTEMS	REPAIR ATB SYSTEM	36	120	156
SER	1983	CC	183288	1/30/2006	ELECTRICAL	CHECK BATTERIES, JUMP START IF NEEDED.	-	216	216
SER	1983	CC	181774	3/17/2006	COMPUTER SYSTEMS	REPAIR ATB CABLE ON BOOM SECTIONS.	284	48	332
SER	1983	CC	199101	4/14/2006	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED.	33	216	249
SER	1983	CC	196344	4/14/2006	ENGINE	CHECK THROTTLE LINKAGE.	-	72	72
SER	1983	CC	202573	4/29/2006	CABLE/WIRE	REPLACED FRONT HOIST CABLE	3,114	2,244	5,358
SER	1983	CC	201869	4/29/2006	PREVENTATIVE MAINTENANCE	ANNUAL INSPECT (LABOR) AND MISC. REPAIRS	12	528	540
SER	1983	CC	130018	5/15/2006	HOIST / WINCH	CHANGE AND SAMPLE OIL IN MAIN HOIST	10	456	466
SER	1983	CC	214197	6/13/2006	PREVENTATIVE MAINTENANCE	HAD DAVE'S WRECKER SERVICE REPLACE FUEL FILTERS	176	-	176

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
SER	1983	CC	222219	7/21/2006	ENGINE	COOLANT LEAK	227	372	599
SER	1983	CC	222755	7/26/2006	ENGINE	ENGINE KEEPS DYING	7	120	127
SER	1983	CC	223697	8/3/2006	ENGINE	CHECK FUEL PROBLEM	13	120	133
SER	1983	CC	226854	8/16/2006	PREVENTATIVE MAINTENANCE	SERVICE ENGINE 8/15/06 @ 3412 HOURS	63	288	351
SER	1983	CC	228262	9/8/2006	FRAME AND CHASSIS	REPAIR LEFT TRACK IDLER	2,314	960	3,274
SER	1983	CC	233330	9/16/2006	PREVENTATIVE MAINTENANCE	CLEAN & INSPECT FOR REPAIRS	1,255	1,368	2,623
SER	1983	CC	242566	10/19/2006	ASSEMBLY NON BILLABLE	ASSEMBLE CRANE IN BLOOMINGTON, IN. (FABCON)	-	384	384
SER	1983	CC	246186	11/3/2006	PREVENTATIVE MAINTENANCE	CHECK STARTING PROBLEM	105	216	321
SER	1983	CC	248425	11/17/2006	PREVENTATIVE MAINTENANCE	CHANGE FUEL FILTERS & PUT EXTRA SET IN CAB	20	72	92
SER	1983	CC	230932	12/5/2006	FRAME AND CHASSIS	R.H FINAL DRIVE LEAK-REBUILD TRAVEL BRAKE ASSY.	3,215	3,660	6,875
SER	1983	CC	257852	1/12/2007	PREVENTATIVE MAINTENANCE	SERVICE THE ENGINE.	34	444	478
SER	1983	CC	260038	1/19/2007	PNEUMATIC SYSTEMS	REMOVE AND REPLACE LEAKING AIR LINE.	-	288	288
SER	1983	CC	260301	1/20/2007	FRAME AND CHASSIS	TRACK PAD EAR BROKE OFF- REPAIRED TRACK PAD &	413	432	845
SER	1983	CC	261348	2/5/2007	PAINTING	COMPLETE PAINT JOB AND DECALS	709	2,976	3,685
SER	1983	CC	265582	2/20/2007	HEATING AND AIR CONDITIONING	CHECK CAB HEATER. CHECK STROBE LIGHT ON BOOM TIP.	-	432	432
SER	1983	CC	260943	3/12/2007	ELECTRICAL	ORDERING WIND SPEED INDICATOR	1,456	2,436	3,892
SER	1983	CC	252111	3/23/2007	PREVENTATIVE MAINTENANCE	REASSEMBLE TRAVEL BRAKE ASSY. WITH NEW PARTS	2,102	192	2,294
SER	1983	CC	273073	3/28/2007	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED.	51	192	243
SER	1983	CC	274732	3/28/2007	ENGINE	CHECK ENGINE RPM'S.	-	120	120
SER	1983	CC	263999	3/29/2007	CAB	REPLACE FRONT WINDSHIELD - RYAN'S	1,921	72	1,993
SER	1983	CC	261068	3/29/2007	PREVENTATIVE MAINTENANCE	SERVICE ENGINE COMPLETE	176	1,104	1,280
SER	1983	CC	279966	6/11/2007	CAB	CHECK CAB CONTROL CONSOLE.	358	72	430
SER	1983	CC	286754	6/11/2007	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED WHILE ON RENT AT LIA.	69	144	213
SER	1983	CC	290283	6/15/2007	HOIST / WINCH	CHECK REAR DRUM HOIST BRAKES.	-	192	192
SER	1983	CC	292198	8/16/2007	HOIST / WINCH	CHECK DRUM HOIST BRAKE OPERATION.	-	168	168
SER	1983	CC	302409	8/31/2007	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED WHILE ON RENT AT LIA.	26	96	122
SER	1983	CC	323090	11/30/2007	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED WHILE ON RENT AT LIA.	26	96	122
SER	1983	CC	324822	12/14/2007	INSPECTIONS	INSPECT CRANE AFTER BOOM RE-CONFIGURATION.	-	96	96
SER	1983	CC	317389	12/21/2007	HOIST / WINCH	CHECK HOIST BRAKES.	-	408	408
SER	1983	CC	331536	1/26/2008	HOIST / WINCH	REMOVE AND REPLACE BOOM HOIST CABLE.	470	1,116	1,586
SER	1983	CC	332752	2/1/2008	INSPECTIONS	PERFORM ANNUAL CRANE INSPECTION.	-	120	120
SER	1983	CC	333601	2/15/2008	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED WHILE RENT AT LIA.	26	120	146
SER	1983	CC	338207	2/27/2008	PREVENTATIVE MAINTENANCE	REPAIR WSI SENDING UNIT.	267	-	267
SER	1983	CC	339325	3/6/2008	FRAME AND CHASSIS	ADJUST TRACKS.	-	108	108
SER	1983	CC	352589	4/24/2008	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND RELATED WHILE ON RENT AT LIA.	53	252	305
SER	1983	CC	353812	5/9/2008	PNEUMATIC SYSTEMS	CHECK AIR VALVE FOR HOIST BRAKE SYSTEM.	239	612	851
SER	1983	CC	357501	5/20/2008	PREVENTATIVE MAINTENANCE	SERVICE ENGINE	100	636	736
SER	1983	CC	351849	5/23/2008	ELECTRICAL	CHECK CAB FAN.	68	96	164
SER	1983	CC	358891	6/13/2008	BILLABLE ASSEMBLY	CRANE ASSEMBLY	-	1,248	1,248
SER	1983	CC	357514	7/1/2008	POST RENTAL INSPECTIONS	CHECK OVER FOR MISC REPAIRS	12,655	3,372	16,027
SER	1983	CC	362998	7/1/2008	ELECTRICAL	DEAD BATTERY IN LOAD CELL	3,207	648	3,855
SER	1983	CC	359411	7/8/2008	HEATING AND AIR CONDITIONING	REPAIR ROTATION INDICATOR, AIR CONDITIONER, BOOM	8,235	4,188	12,423
SER	1983	CC	364667	7/8/2008	HEATING AND AIR CONDITIONING	REPAIR AIR CONDITIONING	194	1,368	1,562
SER	1983	CC	367212	7/14/2008	HEATING AND AIR CONDITIONING	CHECK AC PROBLEM	31	672	703
SER	1983	CC	368140	7/28/2008	PREVENTATIVE MAINTENANCE	SERVICE	48	192	240
SER	1983	CC	369311	7/30/2008	HOIST / WINCH	MAIN HOIST GOING UP BUT NOT COMING DOWN	55	864	919
SER	1983	CC	375778	9/9/2008	PREVENTATIVE MAINTENANCE	SERVICE	82	384	466
SER	1983	CC	377764	9/10/2008	ELECTRICAL	ITEMS REMOVED FROM W/O 359411	4,454	-	4,454
SER	1983	CC	386594	11/12/2008	PREVENTATIVE MAINTENANCE	SERVICE	64	504	568
SER	1983	CC	392187	12/29/2008	DRIVE TRAIN	CHECK ERRATIC DRUM CONTROL	929	1,683	2,612
SER	1983	CC	394920	1/15/2009	PREVENTATIVE MAINTENANCE	SERVICE	123	528	651
SER	1983	CC	402872	3/10/2009	ELECTRICAL	ROT IND NOT WORKING	3,158	1,872	5,030
SER	1983	CC	403848	3/12/2009	PREVENTATIVE MAINTENANCE	CRANE DUE FOR SERVICE	111	528	639
SER	1983	CC	407619	3/31/2009	ELECTRICAL	CHECK ERRATIC HOIST FUNCTIONS	1,598	-	1,598
SER	1983	CC	413259	5/6/2009	PNEUMATIC SYSTEMS	REPAIR ERRATIC DRUM CONTROL	7,360	-	7,360
SER	1983	CC	413156	5/12/2009	PREVENTATIVE MAINTENANCE	200 HR SERVICE DUE	73	384	457
SER	1983	CC	414917	5/20/2009	POST RENTAL INSPECTIONS	OFFRENT INSPECTION	-	336	336

Work Order Estimate

Work Order #	69085
Branch	WMF
Bill to Branch	WMF
Customer Number	0
Equipment Model	222
Equipment Class	90
Description of Problem	
Work Order Desc.	BRAKES
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	TCARLETTI
Date Opened	07/06/2004
Equipment Number	1983
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$10,188.00
Parts Total \$	\$0.00	\$452.96
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$10,640.96

Labor

Labor					
		0	\$0.00	184.5	\$10,188.00
Totals:		0	\$0.00	184.5	\$10,188.00

Parts

Parts					
BG	BEARING	0	\$0.00	7	\$53.44
BR	BRAKES	0	\$0.00	-1	(\$177.69)
EL	ELECTRICAL	0	\$0.00	1	\$90.42
HW	HARDWARE	0	\$0.00	1	\$7.03
SK	SEAL KIT	0	\$0.00	2	\$428.09
SL	SEAL	0	\$0.00	1	\$51.67
Totals:		0	\$0.00	11	\$452.96

Other

Other					
	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	357514
Branch	WLD
Bill to Branch	LOU
Customer Number	0
Equipment Model	222
Equipment Class	90
Description of Problem	RYAN'S TO REPLACE GLASS,REPLACE BOOM HOIST CABLE
Work Order Desc.	CHECK OVER FOR MISC REPAIRS
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	Approved RentalMan
Authorized Date	
Created By	TAMMYT
Date Opened	05/13/2008
Equipment Number	1983
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$3,372.00
Parts Total \$	\$0.00	\$12,654.97
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$16,026.97

Labor

Code	Description	Estimate	Actual	Rate	Total
5421	INSPECT MACHINE FOR REPAIRS NEEDED	0	\$0.00	58	\$3,192.00
5485	R&R BOOM HOIST CABLE	0	\$0.00	3.5	\$180.00
Totals:		0	\$0.00	61.5	\$3,372.00

Parts

Code	Description	Estimate	Actual	Rate	Total
	OUTSIDE GLASS	0	\$0.00	1	\$80.00
	OUTSIDE-HOSE	0	\$0.00	1	\$2,404.67
	OUTSIDE-HOSE	0	\$0.00	1	\$304.24
	OUTSIDE REBUILD	0	\$0.00	1	\$3,811.20
BG	BEARING	0	\$0.00	1	\$83.87
BL	BELT	0	\$0.00	3	\$41.91
DT	DRIVETRAIN	0	\$0.00	1	\$1,522.80
EL	ELECTRICAL	0	\$0.00	4	\$1,403.11
FT	FITTINGS	0	\$0.00	1	\$24.30
HC	HYDRAULIC COMPONENTS	0	\$0.00	1	\$878.32
HW	HARDWARE	0	\$0.00	6	\$308.18
SL	SEAL	0	\$0.00	1	\$68.50
WR	WIRE ROPE	0	\$0.00	430	\$1,723.87
Totals:		0	\$0.00	452	\$12,654.97

Other

	Nothing Found				
Totals:					

Work Order Estimate

Work Order #	359411
Branch	CRL
Bill to Branch	CRL
Customer Number	0
Equipment Model	222
Equipment Class	90
Description of Problem	ANGEL INDICATOR
Work Order Desc.	REPAIR ROTATION INDICATOR, AIR CONDITIONER, BOOM
Reviewed by	
Reviewers Comments	
Review Date	

Authorized By	
Authorized Date	
Created By	ROBS
Date Opened	05/27/2008
Equipment Number	1983
Equipment Make	MANITOWOC
Equipment Category	20

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$0.00	\$4,188.00
Parts Total \$	\$0.00	\$8,234.79
Misc Charge	\$0.00	\$0.00
Total \$	\$0.00	\$12,422.79

Labor

1		0	\$0.00	9	\$456.00
360	INSPECT BOOM ANGLE INDICATOR	0	\$0.00	12	\$672.00
4936	INSPECT BOOM ATB SWITCH	0	\$0.00	22	\$1,200.00
5428	REPLACE WIPER MOTOR	0	\$0.00	3	\$216.00
5508	REPAIR DRUM ROTATION INDICATORS	0	\$0.00	19.5	\$1,236.00
6020	TRAVEL TIME TO AND FROM SERVICE CALL	0	\$0.00	6	\$408.00
Totals:		0	\$0.00	71.5	\$4,188.00

Parts

	OUTSIDE HEAT/AC REPAIR	0	\$0.00	1	\$425.00
EL	ELECTRICAL	0	\$0.00	5	\$5,640.71
EP	ENGINE PARTS	0	\$0.00	1	\$1,960.44
HS	HOSES	0	\$0.00	1	\$208.16
HW	HARDWARE	0	\$0.00	8	\$0.48
Totals:		0	\$0.00	16	\$8,234.79

Other

	Nothing Found				
Totals:					