

Maxim Crane Works, LP

5 Year Maintenance History Summary

3116

170 ton

DEMAG AC140

2005

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
MWR	3116	HYD	151073	9/27/2005	PREVENTATIVE MAINTENANCE	SET UP AND DECALING OF NEW MACHINE,PERFORM INSPECT	675	1,356	2,031
MWR	3116	HYD	157529	10/27/2005	PREVENTATIVE MAINTENANCE	CHECK DRIVE LINES	12	-	12
MWR	3116	HYD	164246	11/3/2005	PREVENTATIVE MAINTENANCE	SERVICE ENGINE AND CHECK DRIVELINES	144	804	948
MWR	3116	HYD	164323	11/9/2005	ELECTRICAL	REPAIR LIGHTS	58	168	226
MWR	3116	HYD	166648	12/20/2005	ELECTRICAL	CHECK WIRING IN CARRIER AND COOLING FAN ON UPPER	435	120	555
MWR	3116	HYD	169836	1/16/2006	COMPUTER SYSTEMS	CHECK COMPUTER SYSTEM	47	756	803
MWR	3116	HYD	178555	1/16/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER AND LOWER ENGINE	307	528	835
MWR	3116	HYD	187038	3/3/2006	CABLE/WIRE	STRAIGHTEN AUX. CABLE	-	108	108
MWR	3116	HYD	189381	3/3/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER & LOWER ENGINE	296	432	728
MWR	3116	HYD	177942	4/5/2006	HEATING AND AIR CONDITIONING	CHECK UPPER HEATER, REPAIR DOLLY HOSES AND CORD	883	576	1,459
MWR	3116	HYD	198678	4/14/2006	HYDRAULIC	CHECK HYD LEAK	-	120	120
MWR	3116	HYD	202636	4/27/2006	HYDRAULIC	CHECK HYD LEAK	-	96	96
MWR	3116	HYD	202885	4/27/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	104	264	368
MWR	3116	HYD	206003	5/23/2006	POST RENTAL INSPECTIONS	CHECK OVER MACHINE FOR MISC REPAIRS	36	-	36
MWR	3116	HYD	209531	6/5/2006	ENGINE	REPAIR LOWER ENGINE COOLANT LEAK	-	144	144
MWR	3116	HYD	210185	6/5/2006	HEATING AND AIR CONDITIONING	TRANSPORT SPECIALISTS TO CHECK A/C UNIT	128	108	236
MWR	3116	HYD	211090	6/7/2006	COMPUTER SYSTEMS	CHECK COMPUTER PROBLEM	-	240	240
MWR	3116	HYD	210708	6/7/2006	PREVENTATIVE MAINTENANCE	SERVICE LOWER ENGINE	204	336	540
MWR	3116	HYD	213643	6/12/2006	COMPUTER SYSTEMS	CHECKED OUT COMPUTER PROBLEM	-	216	216
MWR	3116	HYD	213371	6/15/2006	HYDRAULIC	REPAIR BLOWN ORING	-	624	624
MWR	3116	HYD	217969	7/7/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	53	216	269
MWR	3116	HYD	224757	8/7/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	52	156	208
MWR	3116	HYD	224616	8/16/2006	FRAME AND CHASSIS	REPAIR DAMAGE TO DOLLY	152	384	536
MWR	3116	HYD	224814	8/17/2006	POST RENTAL INSPECTIONS	CHECK OVER FOR MISC REPAIRS	3	-	3
MWR	3116	HYD	228761	8/18/2006	TIRES	CHECK AND AIR UP ALL TIRES	-	24	24
MWR	3116	HYD	226509	8/21/2006	HYDRAULIC	REPAIR HYD LEAK ON UPPER	96	72	168
MWR	3116	HYD	227047	8/24/2006	INSPECTIONS	ANNUAL INSPECTION	-	120	120
MWR	3116	HYD	230541	9/8/2006	HYDRAULIC	CHECK HYD OIL LEAK, COOLER MOTOR PROBLEM	129	624	753
MWR	3116	HYD	234694	9/18/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER AND LOWER ENGINES	381	564	945
MWR	3116	HYD	236604	9/25/2006	TIRES	REPAIR FLAT ON LEFT REAR OUTER TIRE ON DOLLY	-	24	24
MWR	3116	HYD	234360	9/25/2006	ELECTRICAL	REPLACE BEACON LIGHT BULBS	95	72	167
MWR	3116	HYD	236637	9/29/2006	BRAKES	REPLACE FRONT AXLE BRAKE CHAMBER	-	96	96
MWR	3116	HYD	241474	10/18/2006	HYDRAULIC	REPAIR HYD OIL LEAK	-	72	72
MWR	3116	HYD	245799	11/9/2006	PREVENTATIVE MAINTENANCE	SERVICE UPPER AND LOWER ENGINES	248	480	728
MWR	3116	HYD	216649	11/10/2006	ELECTRICAL	REPLACE CLEARANCE LIGHT ON JIB	75	-	75
MWR	3116	HYD	250382	11/27/2006	TIRES	CHECK AND AIR UP ALL TIRES ON CRANE AND DOLLY	-	72	72
MWR	3116	HYD	251761	12/20/2006	BOOM	CHECK BOOM PINNING PROBLEM	-	264	264
MWR	3116	HYD	255521	12/26/2006	HYDRAULIC	CHECK HYD OIL LEAK IN UPPER	-	168	168
MWR	3116	HYD	256770	1/2/2007	FABRICATION	FABRICATE BRACKET TO RAISE HEIGHT OF WIND METER	-	108	108
MWR	3116	HYD	259261	1/15/2007	PNEUMATIC SYSTEMS	CHECK HYD OIL LEAK	-	180	180
MWR	3116	HYD	263996	2/17/2007	PREVENTATIVE MAINTENANCE	SERVICE UPPER AND LOWER ENGINES	166	264	430
MWR	3116	HYD	261284	2/19/2007	ELECTRICAL	REPLACE PRESSURE TRANSDUCER	800	504	1,304
MWR	3116	HYD	241374	3/1/2007	INSPECTIONS	SUPERSTRUCTURE INSPECTION AND REPAIRS TO DEMAG AC1	-	888	888
MWR	3116	HYD	269787	4/21/2007	HOIST / WINCH	CHECK WINCH PROBLEM	-	384	384
MWR	3116	HYD	279092	4/24/2007	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	65	456	521
MWR	3116	HYD	285463	5/22/2007	TIRES	REPAIR THE SPARE FOR THE CRANE	-	36	36
MWR	3116	HYD	285596	5/22/2007	ENGINE	CHECK TURBOS FOR OIL LEAKING	644	-	644
MWR	3116	HYD	287669	6/11/2007	PREVENTATIVE MAINTENANCE	SERVICE UPPER AND LOWER ENGINES	214	480	694
MWR	3116	HYD	286512	6/13/2007	POST RENTAL INSPECTIONS	REPLACE SWING MOTOR AND CHECK OVER MACHINE	8	168	176
MWR	3116	HYD	286536	6/13/2007	ENGINE	CHECK AND REPAIR TRANSMISSION PROBLEM	-	336	336
MWR	3116	HYD	294844	7/30/2007	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	50	180	230
MWR	3116	HYD	305557	9/10/2007	INSPECTIONS	ANNUAL INSPECTION	-	204	204
MWR	3116	HYD	294427	9/10/2007	DRIVE TRAIN	CHECK OUT STEERING PROBLEM	-	252	252

Region	Unit #	Type	WO #	Date Closed	Labor Code	WO Description	\$ Parts	\$ Labor	\$ Total
MWR	3116	HYD	298545	10/1/2007	POST RENTAL INSPECTIONS	CHECK OVER FOR MISC REPAIRS	-	300	300
MWR	3116	HYD	310248	10/6/2007	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	50	96	146
MWR	3116	HYD	304212	10/6/2007	DRIVE TRAIN	CHECK STEERING PROBLEMS	-	192	192
MWR	3116	HYD	305839	10/6/2007	PREVENTATIVE MAINTENANCE	SERVICE LOWER ENGINE	182	144	326
MWR	3116	HYD	299345	10/6/2007	ENGINE	CHECK TRANSMISSION PROBLEM	816	960	1,776
MWR	3116	HYD	301634	10/22/2007	HOIST / WINCH	RESEAL SWING BRAKE	1,892	216	2,108
MWR	3116	HYD	317180	11/5/2007	ELECTRICAL	CHECK OUT 2ND WINCH NOT WORKING PROBLEM	-	72	72
MWR	3116	HYD	313752	11/5/2007	ASSEMBLY NON BILLABLE	ASSEMBLE CRANE	206	312	518
MWR	3116	HYD	318708	11/19/2007	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	49	360	409
MWR	3116	HYD	322550	12/5/2007	BOOM	CUT BOOM SECTIONS AND TOWER BOOM AFTER ACCIDENT	2,979	2,736	5,715
MWR	3116	HYD	311602	12/31/2007	OUTRIGGERS	CHECK HYD LEAK AT OUTRIGGER	350	492	842
MWR	3116	HYD	318688	1/15/2008	ELECTRICAL	CHECK SWING PROBLEM	-	456	456
MWR	3116	HYD	323084	2/5/2008	BOOM	DISSAMBLE BOOM AFTER ACCIDENT	345	2,460	2,805
MWR	3116	HYD	339081	2/13/2008	ELECTRICAL	CHARGE BATTERIES	-	72	72
MWR	3116	HYD	341609	2/14/2008	PREVENTATIVE MAINTENANCE	(WHECO) CHARGES FOR WHECO TO COME IN & INSPECT	4,770	-	4,770
MWR	3116	HYD	373435	8/25/2008	PREVENTATIVE MAINTENANCE	SERVICE UPPER AND LOWER ENGINES	472	1,308	1,780
MWR	3116	HYD	324717	12/4/2008	BOOM	REPAIRS TO CRANE AFTER ACCIDENT - CRANE WAS TURNED	307,009	35,244	342,253
MWR	3116	HYD	396120	1/14/2009	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	45	312	357
MWR	3116	HYD	395547	1/16/2009	COMPUTER SYSTEMS	CHECK ATB MALFUNCTION. CHECK COMPUTER MALFUNCTION.	566	456	1,022
MWR	3116	HYD	398460	2/2/2009	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	45	396	441
MWR	3116	HYD	398031	2/27/2009	PREVENTATIVE MAINTENANCE	CHECK AIR FILTER.	31	48	79
MWR	3116	HYD	400876	2/27/2009	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE	45	552	597
MWR	3116	HYD	402262	3/2/2009	COMPUTER SYSTEMS	CHECK COMPUTER PROBLEM	-	300	300
MWR	3116	HYD	387963	3/5/2009	HYDRAULIC	REPAIR HYD LEAK AT OUTRIGGERS. CHECK HYD LEAK AT	228	576	804
MWR	3116	HYD	404096	3/9/2009	PREVENTATIVE MAINTENANCE	PM SERVICE ON UPPER - 969 HOURS 3/5/09	45	384	429
MWR	3116	HYD	397137	3/13/2009	HYDRAULIC	CHECK HYDRAULIC LEAK.	-	540	540
MWR	3116	HYD	403836	3/23/2009	PREVENTATIVE MAINTENANCE	GREASE BOOM	1,039	-	1,039
MWR	3116	HYD	406442	3/27/2009	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE AT 1159 HOURS	45	312	357
MWR	3116	HYD	395962	3/31/2009	ELECTRICAL	REPLACE PRESSURE TRANSMITTER- PARTS PUT IN STOCK	-	312	312
MWR	3116	HYD	408736	4/13/2009	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE PLUS HYDRAULICS	55	600	655
MWR	3116	HYD	411088	4/27/2009	HOIST / WINCH	CHECK OUT WINCH PROBLEM	-	768	768
MWR	3116	HYD	412832	5/1/2009	HEATING AND AIR CONDITIONING	CHECK UPPER AIR CONDITIONING SYSTEM.	-	120	120
MWR	3116	HYD	412678	5/1/2009	PREVENTATIVE MAINTENANCE	SERVICE UPPER ENGINE WITH 1566 HOURS	42	444	486
MWR	3116	HYD	415373	5/26/2009	PREVENTATIVE MAINTENANCE	PM-A UPPER ONLY, DONE 5/20/09 WITH 1838 HOURS	60	300	360

Work Order Estimate

Work Order #	324717
Branch	WLD
Bill to Branch	WLD
Customer Number	0
Equipment Model	AC140
Equipment Class	170
Description of Problem	OVER.
Work Order Desc.	REPAIRS TO CRANE AFTER ACCIDENT - CRANE WAS TURNED
Reviewed by	Bryan Carlisle
Reviewers Comments	
Review Date	02/20/2008

Authorized By	Approved Rob Pearce
Authorized Date	02/21/2008
Created By	TAMMYT
Date Opened	02/21/2008
Equipment Number	3116
Equipment Make	DEMAG
Equipment Category	60

	<i>Estimate</i>	<i>Actual</i>
Labor Total \$	\$32,544.00	\$35,244.00
Parts Total \$	\$263,084.42	\$307,008.94
Misc Charge	\$0.00	\$0.00
Total \$	\$295,628.42	\$342,252.94

Labor

Code	Description	Hours	Rate	Hours	Amount
440	INSPECT TIRE CONDITION AND PRESSURE	0	\$0.00	1	\$48.00
4726	R&R ENGINE	0	\$0.00	49	\$2,808.00
4801	OVERALL CLEANLINESS	0	\$0.00	5.5	\$324.00
4818	DISASSEMBLE BOOM	80	\$3,840.00	53.5	\$2,964.00
4845	INSPECT OUTRIGGER BOXES	80	\$3,840.00	248.5	\$13,740.00
5254	INSPECT MAIN WINCH CABLE	0	\$0.00	30	\$1,512.00
5288	TROUBLE SHOOT COMPUTER MALFUNCTION & REPAIR	0	\$0.00	12.5	\$648.00
5354	WELDING REPAIRS	100	\$4,800.00	19	\$984.00
5368	BOOM REPAIR	166	\$7,968.00	36	\$1,860.00
5385	TOUCH UP PAINT	0	\$0.00	48	\$2,508.00
5425	REASSEMBLE BOOM	80	\$3,840.00	7	\$336.00
5654	PREP AND PAINT SHEET METAL, BOOM & MISC PARTS	0	\$0.00	17	\$1,092.00
5886	REPAIR/REPLACE BOOM	172	\$8,256.00	7.5	\$504.00
6020	TRAVEL TIME TO AND FROM SERVICE CALL	0	\$0.00	6	\$360.00
6051	INSPECT SWING PROBLEM	0	\$0.00	103.5	\$5,556.00
Totals:		678	\$32,544.00	644	\$35,244.00

Parts

Description	Hours	Rate	Hours	Amount
OUTSIDE BOOM REPAIR	0	\$0.00	1	\$214,226.75
OUTSIDE BOOM REPAIR	0	\$0.00	1	\$2,613.41
FREIGHT ON PARTS	0	\$0.00	1	\$10,049.43
OUTSIDE HYDRAULIC	0	\$0.00	1	\$5,572.26
OUTSIDE FABRICATION	0	\$0.00	1	\$87.00
OUTSIDE-HOSE	0	\$0.00	1	\$8.40
OUTSIDE FABRICATION	0	\$0.00	1	\$2,497.00
OUTSIDE FABRICATION	0	\$0.00	1	\$480.00
OUTSIDE HYDRAULIC	0	\$0.00	1	\$1,027.94
OUTSIDE HYDRAULIC	0	\$0.00	1	\$3,660.00
OUTSIDE HYDRAULIC	0	\$0.00	1	\$1,548.71
OUTSIDE HYDRAULIC	0	\$0.00	1	\$360.00
OUTSIDE FABRICATION	0	\$0.00	1	\$1,336.72
OUTSIDE-HOSE	0	\$0.00	1	\$801.15
OUTSIDE-HOSE	0	\$0.00	1	\$943.56
OUTSIDE-HOSE	0	\$0.00	1	\$124.17
OUTSIDE-HOSE	0	\$0.00	1	\$125.00
OUTSIDE ENGINE REPAIR	0	\$0.00	1	\$297.50
OUTSIDE FABRICATION	0	\$0.00	1	\$1,772.79
OUTSIDE ENGINE REPAIR	0	\$0.00	1	\$42.68
OUTSIDE-HOSE	0	\$0.00	1	\$680.00
OUTSIDE HYDRAULIC	0	\$0.00	1	

	OUTSIDE BOOM REPAIR	1	\$190,064.00	0	\$0.00
	FREIGHT ON PARTS	1	\$20,000.00	0	\$0.00
BG	BEARING	0	\$0.00	3	\$1,453.60
BL	BELT	0	\$0.00	1	\$34.38
BT	BATTERY	0	\$0.00	2	\$293.90
CB	CABLE ASSEMBLY	2	\$423.31	2	\$585.97
CD	CAB AND DOORS	0	\$0.00	2	\$40.44
DC	DECALS	0	\$0.00	2	\$60.00
DT	DRIVETRAIN	2	\$625.48	2	\$839.56
EL	ELECTRICAL	2	\$1,399.86	1	\$1,086.90
EN	WHOLE ENGINES	0	\$0.00	1	\$20,664.86
FL	FILTER	0	\$0.00	-1	(\$253.24)
FT	FITTINGS	4	\$29.36	8	\$107.70
HC	HYDRAULIC COMPONENTS	13	\$7,312.22	3	\$7,077.94
HS	HOSES	2	\$133.80	8	\$1,103.95
HW	HARDWARE	75	\$34,149.93	356	\$7,575.80
ML	METAL STOCK	0	\$0.00	2	\$798.00
PT	PAINT	0	\$0.00	5	\$149.85
RI	RIGGING GEAR	0	\$0.00	52	\$4,178.21
SL	SEAL	4	\$2,706.52	16	\$5,937.81
SV	SHEAVE	8	\$2,920.64	0	\$0.00
VV	VALVES	1	\$3,319.30	1	\$210.58
WR	WIRE ROPE	0	\$0.00	1012	\$6,808.26
Totals:		115	\$263,084.42	1,499	\$307,008.94

Other

	Nothing Found			
Totals:				