

Work Order History Report

22-May-
2009

Asset	W/O No	Description	Finished	DoneReading	Downtime (hours)	Repairtime (hours)
MIM		MT ISA MINES				
MIM-ME		MOBILE EQUIPMENT				
MIM-FEL		FRONT END LOADERS				
FEL026		988G FRONT END LOADER				
FEL026-AC		AIR CONDITIONING				
	6989	Diagnose and repair a/c faults	3/02/2009	17659 Hrs-Eng		10
	7773	Replace a/c thermostat	3/02/2009	17659 Hrs-Eng		4.5
	No of W/O for FEL026-AC	:	2	Asset Total:	FEL026-AC	17 14.5
FEL026-AIR		PNEUMATIC/AIR SYSTEMS				
	8427	Re-gas fire suppression	2/04/2009	18500 Hrs-Eng		6
	No of W/O for FEL026-AIR	:	1	Asset Total:	FEL026-AIR	3.5 6
FEL026-BDY		BODY/CHASSIS				
	8159	Fabricate mud flaps for loader	5/04/2009			1
	9062	Carry out 6 monthly FSS inspection	27/04/2009			2
	9608	Refit trim panels and mudguard.	30/04/2009	18861 Hrs-Eng		1
	No of W/O for FEL026-BDY	:	3	Asset Total:	FEL026-BDY	4.5 4
FEL026-ELE		ELECTRICAL				
	8204	Repair U/S lights	16/03/2009	18134 Hrs-Eng		1
	No of W/O for FEL026-ELE	:	1	Asset Total:	FEL026-ELE	1.5 1
FEL026-GET		GROUND ENGAGING TOOLS				
	7394	Replace GET	28/03/2009			5
	9610	Rotate cutting edge, hard faced side and edge plates.	30/04/2009	18861 Hrs-Eng		8
	No of W/O for FEL026-GET	:	2	Asset Total:	FEL026-GET	14 13
	No of W/O for MIM	:	9	Parent Total:	MIM	40.5 38.5

MIM

MIM-ME

MIM-FEL

FEL026

FRONT END LOADERS

988G FRONT END LOADER

2503	988G 500 hour service	29/10/2008	16509 Hrs-Eng		5
2072	Repairs to Centre Hitch	20/11/2008	16565 Hrs-Eng		66.5
3178	Diagnose and repair all Fire Suppression Faults	26/11/2008	16601 Hrs-Eng		2
3292	Diagnose and repair a/c system faults	27/11/2008	16601 Hrs-Eng		3
2647	REPLACE ENGINE WITH PEX COMPONENT.Engine dusted after intake hose failed, due to operating with clogged air filter over 48 hrs.	28/11/2008	16655 Hrs-Eng		180
2603	HYDRAULIC CONTROL FAULTS	4/12/2008	16690 Hrs-Eng		3
2296	Replace cutting edges	5/12/2008	16758 Hrs-Eng		6
2737	988G 250 hour service	5/12/2008	16759 Hrs-Eng		3
3378	Repairs to FEL026 reverse alarm	10/12/2008	16841 Hrs-Eng		2.2
3660	Diagnose and repair coolant leak	10/12/2008	16841 Hrs-Eng		0.5
3825	Diagnose and repair Hydraulic faults	16/12/2008	16930 Hrs-Eng		5
3687	Repairs to A/C	20/12/2008	17010 Hrs-Eng		3
4058	A/C repairs. Found heayer stuck on, a/c tested ok.	21/12/2008	17015 Hrs-Eng		2
3166	FEL-1000HR 988G Service	23/12/2008	17033 Hrs-Eng		6
4244	Replace Tilt Cylinder O Ring	4/01/2009	17170 Hrs-Eng		1
4730	Repair minesite radio	15/01/2009	Hrs-Eng		3.5
4731	Inspect charging circuit	15/01/2009	Hrs-Eng		3
4990	Replace cutting edges	16/01/2009	Hrs-Eng		8.5
4963	Cutting edges replaced	18/01/2009	Hrs-Eng		3
4288	FEL-250HR 988G Service	19/01/2009	17403 Hrs-Eng		3.5
4943	Replace bucket level sensor	19/01/2009	Hrs-Eng		0
5003	Replace damaged windscreen	21/01/2009	Hrs-Eng		4
4944	Diagnose and repair fire suppression faults	21/01/2009	Hrs-Eng		2
5058	Electrical repairs over Christmas break	21/01/2009	Hrs-Eng		0
5507	Repair u/s lights and terminal block	28/01/2009	17511 Hrs-Eng		4.5

5336	FEL-250HR 988G Service	29/01/2009		Hrs-Eng	0
7350	Repairs to A/C	31/01/2009		Hrs-Eng	1
5002	Diagnose and repair u/s lights	1/02/2009		Hrs-Eng	3
5103	FEL-500HR 988G Service	1/02/2009	17609	Hrs-Eng	4.5
5779	FEL-250HR 988G Service	10/02/2009	17781	Hrs-Eng	3.5
4712	Replace damaged Quick fill and replace lift calibration sensor	11/02/2009		Hrs-Eng	10
6230	Diagnose and repair hydraulic filter alarm. Found sensor connection (trans temp) loose.	17/02/2009	17877	Hrs-Eng	4.5
6228	Replace UHF radio.Found handset u/s (Isa Diesel) whilst repairing hydraulic fault. Replacement radio was already on order through MAS.Continued with order and radio kept as spare onsite. (Garv Tomholt has secured)	17/02/2009		Hrs-Eng	0.5
6652	Replace transmission switch	27/02/2009	17997	Hrs-Eng	7
6278	FEL-2000HR 988G Service	2/03/2009	18037	Hrs-Eng	8.5
5024	Diagnose and repair boom pin faults.Converted to grease lubrication	5/03/2009	18048	Hrs-Eng	7
6651	Repairs to top boom pin oil leaks.System converted to grease.	5/03/2009	18048	Hrs-Eng	1
6653	Replace tyres as per inspection report	12/03/2009		Hrs-Eng	0
7203	FEL-250HR 988G Service	16/03/2009	18261	Hrs-Eng	4
7768	2,000 hr inspection. (Opened to cover w/o variance)	17/03/2009		Hrs-Eng	0
7770	Work order to create p.o for completed service	17/03/2009		Hrs-Eng	0
7806	FEL-500HR 988G Service	2/04/2009	18500	Hrs-Eng	4
9067	FEL-250HR 988G Service	21/04/2009	18760	Hrs-Eng	5
9416	FEL-1000HR 988G Service	12/05/2009	19054	Hrs-Eng	0
No of W/O for FEL026		:	44	Asset Total:	FEL026 792 383.7
FEL026 988G FRONT END LOADER ENGINE					
7282	Repair shutdown faults	6/03/2009	17997	Hrs-Eng	1
No of W/O for FEL026-ENG		:	1	Asset Total:	FEL026-ENG 1.5 1
FEL026-HYD HYDRAULICS					
8212	Repair tilt cylinder leaks	10/03/2009	18261	Hrs-Eng	1
No of W/O for FEL026-HYD		:	1	Asset Total:	FEL026-HYD 1.5 1
FEL026-TNS TRANSMISSION					
7839	Replace transmission temp sender	5/03/2009			1
8873	Diagnose and repair gear selection faults.Replaced faulty gear selector switch.	13/04/2009	18695	Hrs-Eng	3.5
No of W/O for FEL026-TNS		:	2	Asset Total:	FEL026-TNS 5.5 4.5
SITE ME FEL FEL 026 988G FRONT END LOADER					
1861	988G 250 hour service	1/10/2008	16236	Hrs-Eng	3
2146	Diagnose and repair Hydraulic filter alarm fault	7/10/2008	16280	Hrs-Eng	1
2231	Diagnose/repair centre pin noise	15/10/2008		Hrs-Eng	0
2390	Repairs to a/c	20/10/2008		Hrs-Eng	0
No of W/O for FEL 026		:	4	Asset Total:	FEL 026 4.5 4
No of W/O for MIM		:	52	Parent Total:	MIM 805 394.2
Grand Total		:	61		845.5 432.7

NOT ACTIONED
NOT RESOLVED



Hastings Deering (Australia) Ltd. - A.B.N. 49 054 094 647

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- GOVE

Condition Monitoring Centre

PAC-RIM MINING SERVICES
 ATT:
 PO BOX 7237
 GARBUTT
 QLD, 4814

Unit Number **FEL026**
 Location **XSTRATA MT ISA**
 Make **CATERPILLAR**
 Model **988G**
 Serial Number **BNH01468**
 Compartment **engine-primary**
 Oil Brand/Type **CASTROL RX SUPER 15W40**
 Oil Changed **Y**

Lab Control Number **03746315**
 Current Evaluation **A**

CURRENT					EVAL: A	Wear Levels in the 5 Micron Range appear OK. InfraRed Analysis appears acceptable. Viscosity Normal for Oil Type Indicated. All other Test Results appear Acceptable. Continue Sampling at the Recommended Interval.
DAYS TAKEN TO REACH LABORATORY: 7						
DATE TAKEN	DATE REC'D	OIL ADDED	METER HRS/KM	HRS/KM ON OIL		
13-05-09	19-05-09	5	19054	294		

PREVIOUS #1					EVAL: A	Wear Levels in the 5 Micron Range appear OK. InfraRed Analysis appears acceptable. Viscosity Normal for Oil Type Indicated. All other Test Results appear Acceptable. Continue Sampling at the Recommended Interval.
DATE TAKEN	DATE REC'D	OIL ADDED	METER HRS/KM	HRS/KM ON OIL		
21-04-09	23-04-09	0	18760	268		

PREVIOUS #2					EVAL: A	Wear Levels in the 5 Micron Range appear OK. InfraRed Analysis appears acceptable for Hrs/Kms. Viscosity Normal for Oil Type Indicated. All other Test Results appear Acceptable. Continue Sampling at the Recommended Interval.
DATE TAKEN	DATE REC'D	OIL ADDED	METER HRS/KM	HRS/KM ON OIL		
02-04-09	07-04-09	0	18492	240		

PREVIOUS #3					EVAL: A	Wear Levels in the 5 Micron Range appear OK. InfraRed Analysis appears acceptable for Hrs/Kms. Viscosity Normal for Oil Type Indicated. All other Test Results appear Acceptable. Continue Sampling at the Recommended Interval.
DATE TAKEN	DATE REC'D	OIL ADDED	METER HRS/KM	HRS/KM ON OIL		
16-03-09	20-03-09	0	18261	261		

DATE TAKEN	ELEMENTS:- Concentration in ppm (weight/weight)											FLUID CONDITION/CONTAMINANTS												
	Cu	Fe	Cr	Wear metals			Additives					Ba	W	F	ST	OXI	NIT	SUL	PQ	DEP	V100			
130509	2	17	<1	<1	<1	2	<1	<1	1	<1	2231	246	1201	1076	<1	<0.1	<3.0	63	13	22	14	<1	OK	13
210409	2	10	<1	<1	<1	<1	<1	<1	2	3	1916	199	1036	879	<1	<0.1	<3.0	64	13	24	38	8	OK	13
020409	2	11	<1	<1	<1	2	<1	<1	<1	<1	2399	269	1249	1144	<1	<0.1	<3.0	64	11	16	8	<1	OK	13
160309	2	11	<1	<1	<1	2	<1	<1	1	<1	2090	222	1116	992	<1	<0.1	<3.0	63	9	16	9	<1	OK	13
240209	1	5	<1	<1	<1	1	<1	<1	<1	<1	2115	272	1092	1043	<1	<0.1	<3.0	35	10	17	35	1	OK	13
100209	2	5	<1	<1	3	2	<1	<1	4	10	2153	258	1135	1009	<1	0.1	<3.0	33	7	11	11	<1	OK	12

Cu - Copper Fe - Iron Cr - Chromium Pb - Lead Al - Aluminium Si - Silicon
 Sn - Tin Ni - Nickel Na - Sodium K - Potassium Ca - Calcium Mg - Magnesium
 Zn - Zinc P - Phosphorus Ba - Barium W - % Water F - %Fuel Dilution ST - Soot
 OXI - Oxidation NIT - Nitration SUL - Sulphur product PQ - PQ Index DEP - Visible Dep. V100 - Viscosity 100C

OVERALL SAMPLE EVALUATION: "A" - normal wear is occurring; no action required.
 "B" - increased wear is occurring; corrective action may be required.
 "C" - abnormal wear is occurring; corrective action is required.
 "X" - extreme or critical wear is occurring; immediate corrective action is required.

