

# **OIL ANALYSIS REPORT**

# Area Paper Machine Wet End Lubrication System

Bearing Lube Fluid MOBIL DTE PM 220 (2000 GAL)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### A Wear

The copper level is abnormal. All other component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jun2023 Au	ug2023 Nov2023 Dec20	23 Jan2024 Feb2024 Mar2024	Jun2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776477	WC0776350	WC0776638
Sample Date		Client Info		05 Jun 2024	25 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	MARGINAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	10	3
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	0	1	0
Lead	ppm	ASTM D5185m	>30	0	2	0
Copper	ppm	ASTM D5185m	>17	<u> </u>	<u> </u>	<b>▲</b> 37
Tin	ppm	ASTM D5185m	>10	0	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3	0
Barium	ppm	ASTM D5185m		13	2	2
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		3	7	7
Calcium	ppm	ASTM D5185m		125	232	116
Phosphorus	ppm	ASTM D5185m		518	741	549
Zinc	ppm	ASTM D5185m		624	847	744
Sulfur	ppm	ASTM D5185m		12092	12806	10083
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	2	1
Sodium	ppm	ASTM D5185m		36	26	21
Potassium	ppm	ASTM D5185m	>20	3	5	0
Water	%	ASTM D6304	>0.2	0.035	0.029	0.011
ppm Water	ppm	ASTM D6304	>2000	353	292	115
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	144	4925	434
Particles >6µm		ASTM D7647	>2500	58	1615	122
Particles >14µm		ASTM D7647	>160	7	156	9
Particles >21µm		ASTM D7647	>40	2	49	2
Particles >38µm		ASTM D7647	>10	0	4	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	14/13/10	19/18/14	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045		1.32	1.41	1.19

Sample Rating Trend WEAR

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# **OIL ANALYSIS REPORT**







Water (KF)

1000

600

muu



Bottom



MPC





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Certificate 12367

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