

# **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area C-3001 Machine Id C-3001 (S/N TM18053)

#### Component Refrigeration Compressor Fluid MOBIL DTE 846 (--- LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

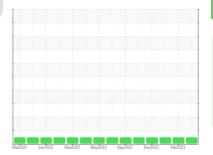
All component wear rates are normal.

#### Contamination

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

### Fluid Condition

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





SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001022	TO10000425	TO6000006
Sample Date		Client Info		08 Jan 2024	14 Feb 2023	23 Jan 2023
Machine Age	hrs	Client Info		12608	12136	11615
Oil Age	hrs	Client Info		12608	12136	11615
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	1	2	2
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		3	4	12
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		8	17	16
Phosphorus	ppm	ASTM D5185m		630	723	704
Zinc	ppm	ASTM D5185m		21	26	24
Sulfur	ppm	ASTM D5185m		697	997	840
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	1
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.005	0.007	0.005
ppm Water	ppm	ASTM D6304		58	77.7	58.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1444	1532	1001
Particles >6µm		ASTM D7647	>2500	453	345	190
Particles >14µm		ASTM D7647	>320	26	19	5
Particles >21µm		ASTM D7647	>80	6	2	0
Particles >38µm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/12	18/16/11	17/15/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		1.444	1.367	1.638



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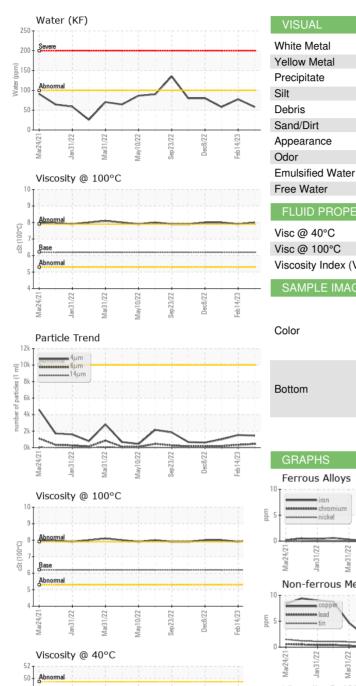
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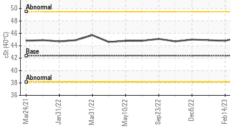
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	FLUID PROPERT	method	limit	
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445	42.4 6.2
	Viscosity Index (VI)	Scale	ASTM D2270	106
Sep23/22	SAMPLE IMAGES	;	method	limit
	Color			
	Bottom			
Sep 23/22 Dec8/22 Feb 14/23	GRAPHS			
о ц	Ferrous Alloys			
M dd	5 - nickel			

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

44.8

7.9

148

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

44.9

151

8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

45.4

149

8

