

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

# GMAC MAIN FAN OIL SYSTEM

Hydraulic System

MOBIL DTE OIL BB (100 GAL)

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### **Fluid Condition**

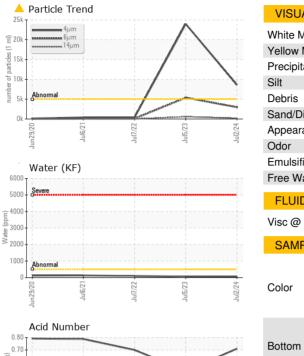
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

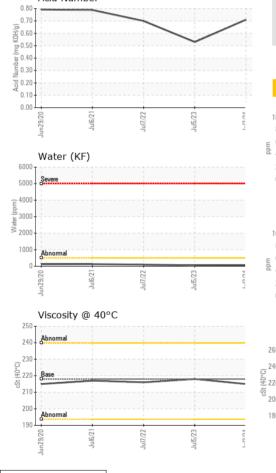
	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0015003	USP0006193	USP238641
Sample Date		Client Info		02 Jul 2024	05 Jul 2023	07 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		110	127	123
Phosphorus	ppm	ASTM D5185m		444	416	436
Zinc	ppm	ASTM D5185m		549	553	609
Sulfur	ppm	ASTM D5185m		13162	13949	14211
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	2	2
	ppm	ASTM D5185m	>20		<1	2
Potassium			200	1		—
	%	ASTM D6304		1 0.007	0.005	0.009
Water				-		
Water	% ppm	ASTM D6304	>0.05	0.007	0.005	0.009
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base >5000	0.007 70 current 8616	0.005 58 history1 23951	0.009 95.6 history2 426
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base >5000	0.007 70 current	0.005 58 history1	0.009 95.6 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000	0.007 70 current 8616	0.005 58 history1 23951	0.009 95.6 history2 426 109 13
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300	0.007 70 current ● 8616 ▲ 2967 ● 180 29	0.005 58 history1 ▲ 23951 ▲ 5383 ▲ 576 ▲ 196	0.009 95.6 history2 426 109
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160	0.007 70 current ● 8616 ▲ 2967 ● 180 29 2	0.005 58 history1 ▲ 23951 ▲ 5383 ▲ 576	0.009 95.6 history2 426 109 13
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40	0.007 70 current ● 8616 ▲ 2967 ● 180 29	0.005 58 history1 ▲ 23951 ▲ 5383 ▲ 576 ▲ 196	0.009 95.6 history2 426 109 13 4
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10	0.007 70 current ● 8616 ▲ 2967 ● 180 29 2	0.005 58 history1 ▲ 23951 ▲ 5383 ▲ 576 ▲ 196 ▲ 11	0.009 95.6 <u>history2</u> 426 109 13 4 1
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	% ppm ESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10 >3	0.007 70 current ● 8616 ▲ 2967 ● 180 29 2 2 0	0.005 58 history1 ▲ 23951 ▲ 5383 ▲ 576 ▲ 196 ▲ 11 0	0.009 95.6 426 109 13 4 1 1 1

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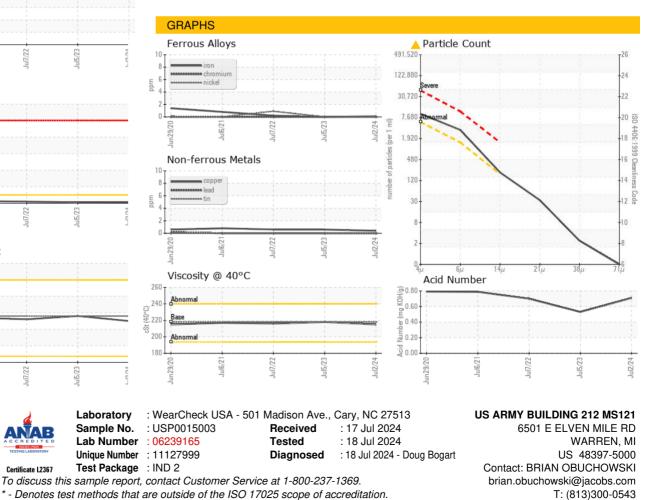


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VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/Dase	current	history i	TIIStOT y2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	218	215	218	216
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					And	
				(And )		



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

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