



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**WVTM03BE**  
Component  
**Biogas Engine**  
Fluid  
**MOBIL Pegasus™ 605 Ultra 40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0839349</b>	WC0839354	WC0839334
Sample Date		Client Info		<b>15 Jul 2024</b>	10 Jul 2024	02 Jul 2024
Machine Age	hrs	Client Info		<b>36939</b>	36821	36639
Oil Age	hrs	Client Info		<b>64</b>	642	460
Filter Age	hrs	Client Info		<b>64</b>	642	460
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	SEVERE	SEVERE

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>15	<b>5</b>	▲ 39	▲ 35
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>6	<b>3</b>	4	3
Lead	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>6	<b>1</b>	4	4
Tin	ppm	ASTM D5185m	>4	<b>1</b>	▲ 4	▲ 4
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

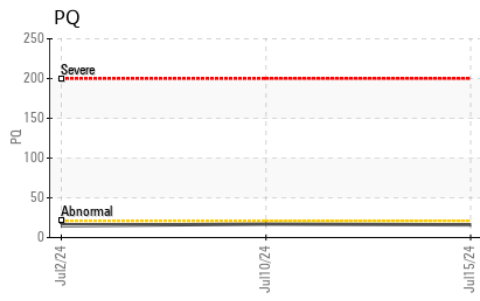
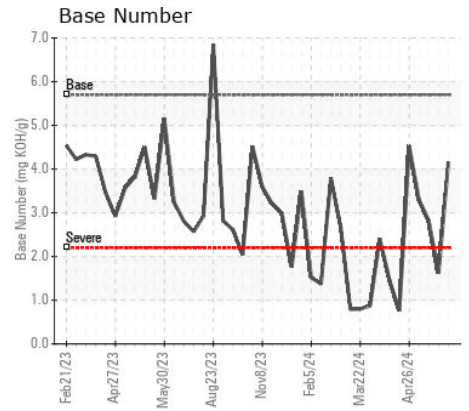
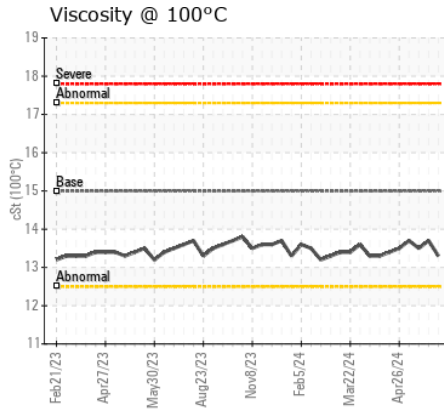
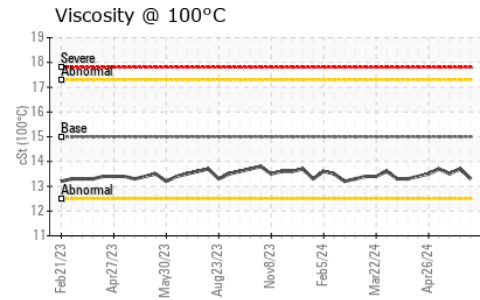
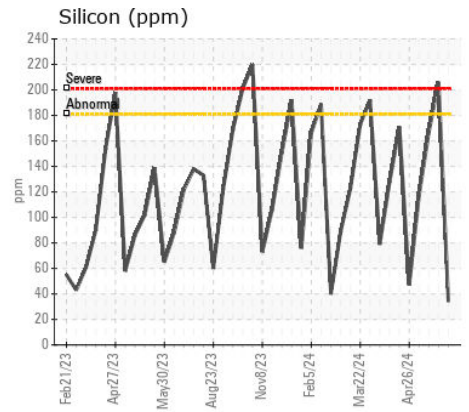
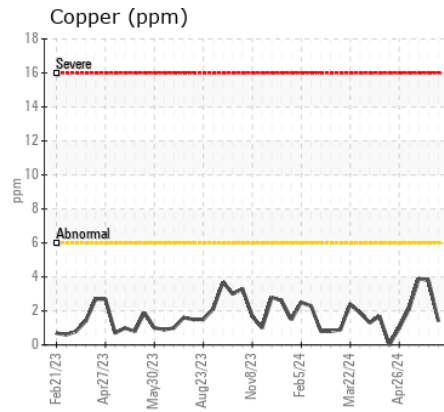
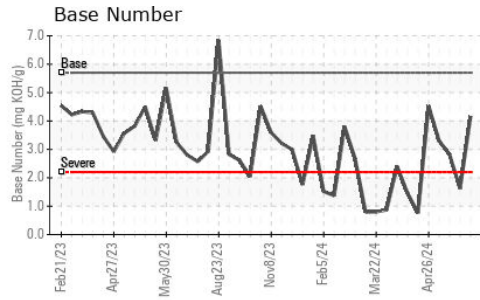
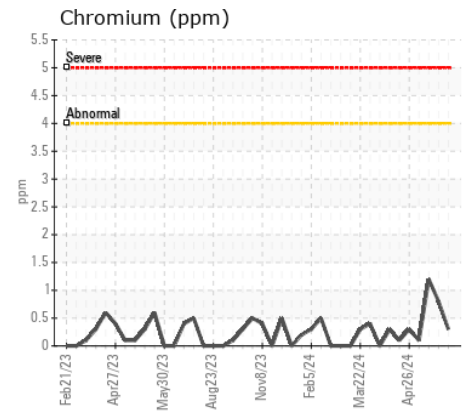
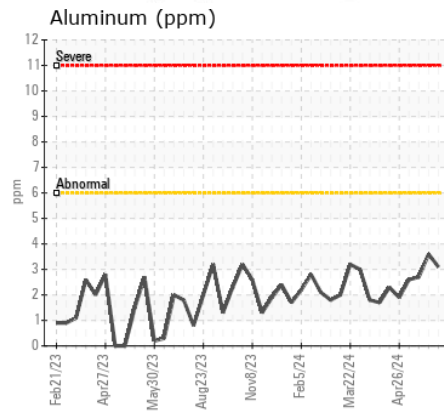
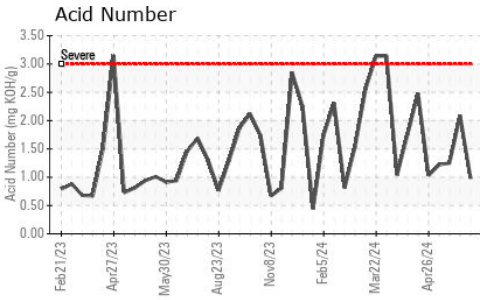
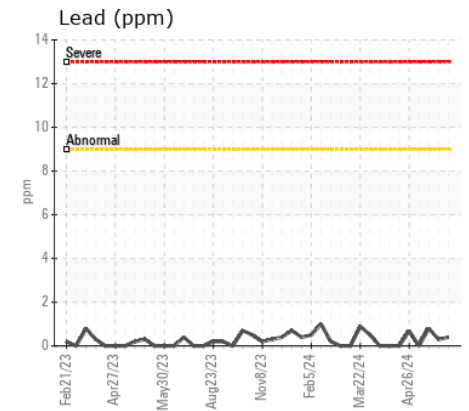
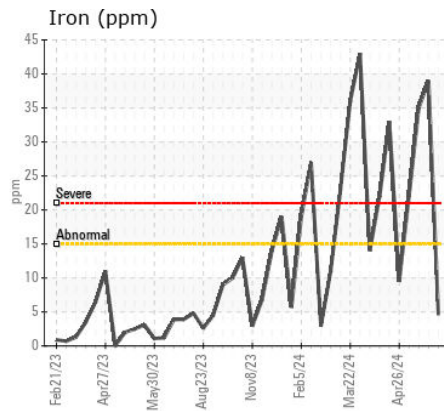
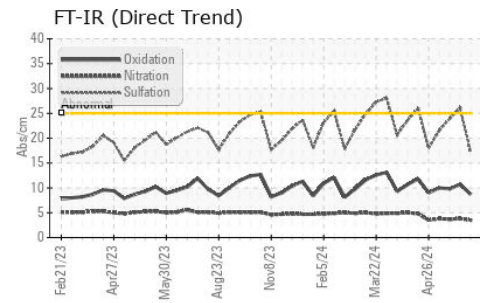
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>181	<b>34</b>	▲ 206	167
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>.11	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624		<b>3.5</b>	3.8	3.7
Sulfation	Abs/.1mm	*ASTM D7415		<b>17.3</b>	26.1	23.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.11	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>21	<b>0</b>	2	0
Boron	ppm	ASTM D5185m		<b>86</b>	16	24
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>6</b>	8	9
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>35</b>	53	57
Calcium	ppm	ASTM D5185m		<b>1460</b>	1538	1504
Phosphorus	ppm	ASTM D5185m		<b>382</b>	408	397
Zinc	ppm	ASTM D5185m		<b>490</b>	542	556
Sulfur	ppm	ASTM D5185m		<b>3594</b>	6748	5218
Oxidation	Abs/.1mm	*ASTM D7414		<b>8.7</b>	10.7	9.8
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.98</b>	2.09	1.25
Base Number (BN)	mg KOH/g	ASTM D2896	5.7	<b>4.16</b>	▲ 1.62	2.82
Visc @ 100°C	cSt	ASTM D445	15	<b>13.3</b>	13.7	13.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0839349 **Received** : 17 Jul 2024  
**Lab Number** : 06239311 **Tested** : 18 Jul 2024  
**Unique Number** : 11128145 **Diagnosed** : 19 Jul 2024 - Sean Felton  
**Test Package** : MOB 2 ( Additional Tests: PQ )

**EDL NA Recips-Watervliet**  
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 Watervliet, MI  
 US 49098  
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 T:  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - 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)