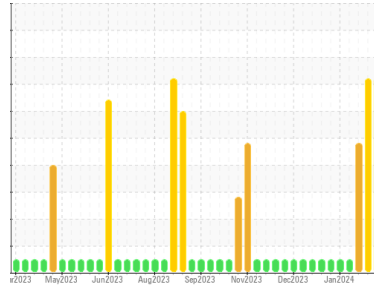




# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**WVTM01BE**  
Component  
**Biogas Engine**  
Fluid  
**MOBIL PEGASUS 605 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

The AN level is above the recommended limit. The BN level is low.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0785354</b>	WC0785362	WC0785361
Sample Date	Client Info		<b>26 Jan 2024</b>	24 Jan 2024	19 Jan 2024
Machine Age	hrs	Client Info	<b>115625</b>	113583	113497
Oil Age	hrs	Client Info	<b>886</b>	841	755
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>SEVERE</b>	SEVERE	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	<b>10</b>	8	8
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >6	<b>3</b>	3	1
Lead	ppm	ASTM D5185m >9	<b>5</b>	4	3
Copper	ppm	ASTM D5185m >6	<b>3</b>	3	3
Tin	ppm	ASTM D5185m >4	<b>6</b>	6	5
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>41</b>	58	55
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	1	2
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	<b>21</b>	23	19
Calcium	ppm	ASTM D5185m	<b>1601</b>	1758	1688
Phosphorus	ppm	ASTM D5185m	<b>394</b>	418	389
Zinc	ppm	ASTM D5185m	<b>604</b>	626	624
Sulfur	ppm	ASTM D5185m	<b>5072</b>	5211	5133

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	<b>229</b>	222	220
Sodium	ppm	ASTM D5185m	<b>1</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	2

## INFRA-RED

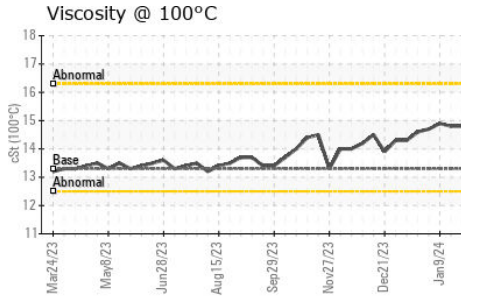
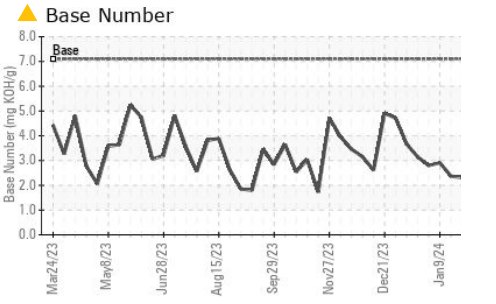
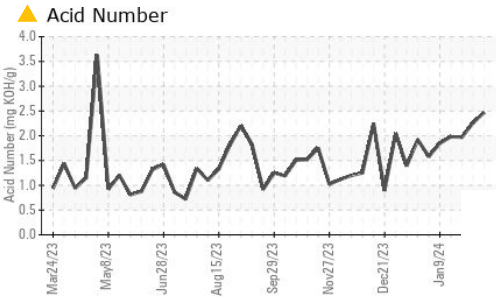
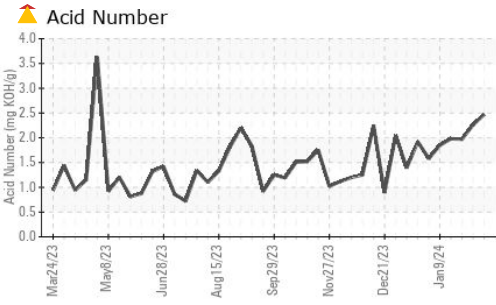
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>4.0</b>	4.0	3.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.8</b>	26.1	25.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.3</b>	14.1	13.8
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>2.47</b>	2.26	1.97
Base Number (BN)	mg KOH/g	ASTM D2896 7.1	<b>1.65</b>	2.17	2.31



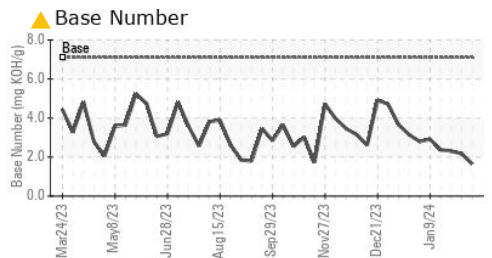
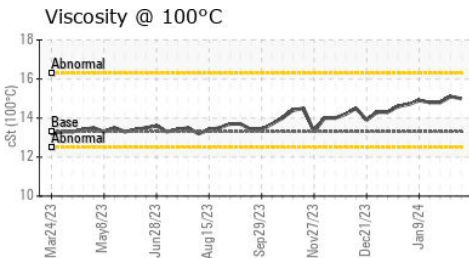
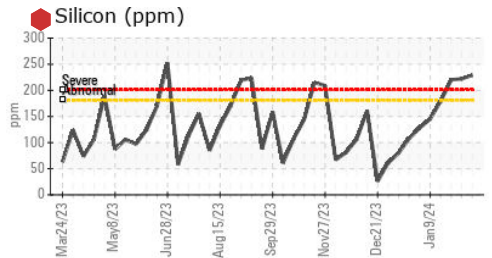
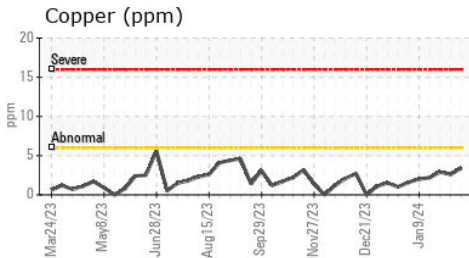
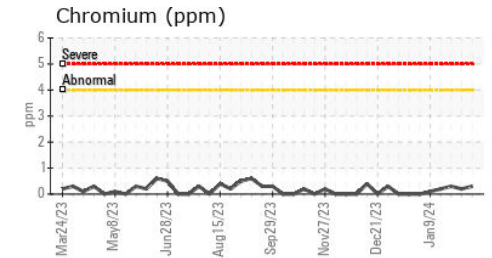
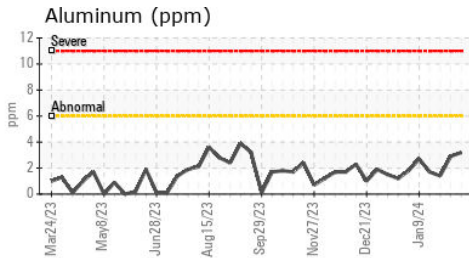
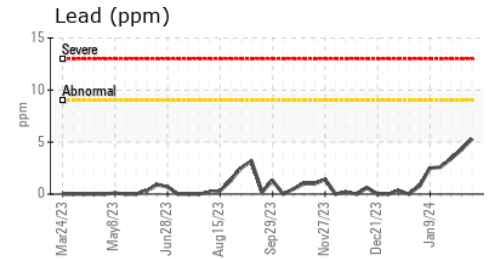
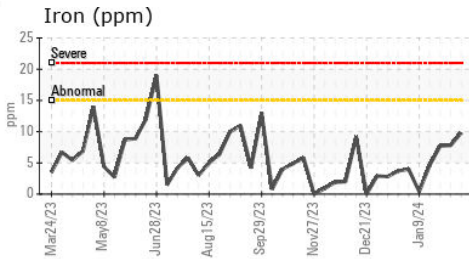
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.3	15.0	15.1

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0785354  
 Lab Number : 06076013  
 Unique Number : 10858104  
 Test Package : MOB 2

EDL NA Recips-Watervliet  
 Watervliet Powerstation, 3563 Hennessey Road  
 Watervliet, MI  
 US 49098  
 Contact: Scott Eastman  
 scott.eastman@edlenergy.com

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)