MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Oil sample only)

WEAR

All component wear rates are normal.

CONTAMINATION

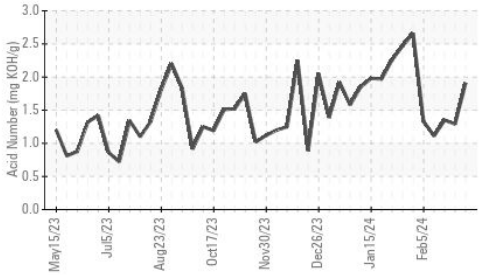
There is no indication of any contamination in the oil.

FLUID CONDITION

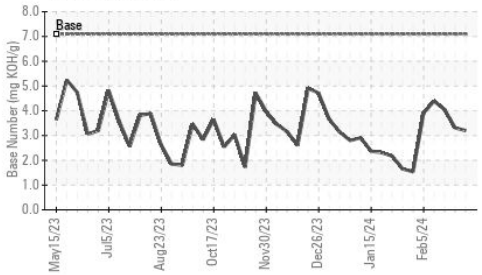
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0785398	WC0785400	WC0785402
Sample Date		Client Info		21 Feb 2024	16 Feb 2024	13 Feb 2024
Machine Age	hrs	Client Info		114229	114110	114038
Oil Age	hrs	Client Info		366	247	175
Filter Age	hrs	Client Info		366	247	175
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>15	4	4	2
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	2	2
Lead	ppm	ASTM D5185m	>9	1	0	1
Copper	ppm	ASTM D5185m	>6	1	<1	<1
Tin	ppm	ASTM D5185m	>4	3	1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>181	115	83	67
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	3.4	3.2	3.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	20.6	19.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		19	21	23
Boron	ppm	ASTM D5185m		58	73	78
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	4	3
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		19	17	17
Calcium	ppm	ASTM D5185m		1543	1574	1446
Phosphorus	ppm	ASTM D5185m		360	385	360
Zinc	ppm	ASTM D5185m		558	542	515
Sulfur	ppm	ASTM D5185m		4572	4328	3805
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.2	10.2	9.6
Acid Number (AN)	mg KOH/g	ASTM D8045		1.91	1.29	1.35
Base Number (BN)	mg KOH/g	ASTM D2896	7.1	3.20	3.31	4.04
Visc @ 100°C	cSt	ASTM D445	13.3	14.6	14.1	14.1

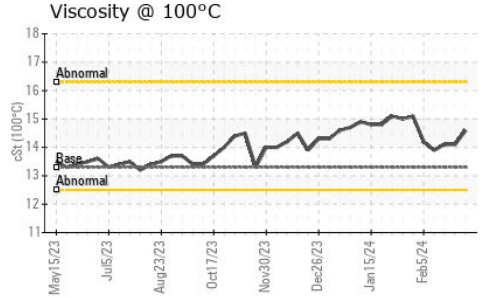
Acid Number



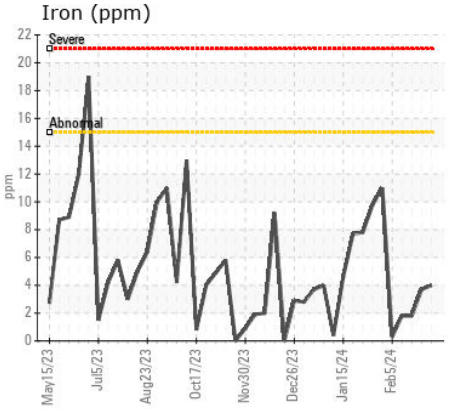
Base Number



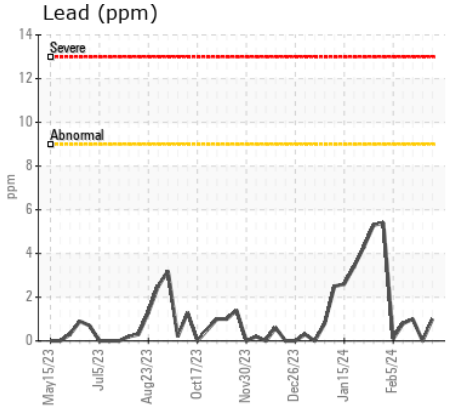
Viscosity @ 100°C



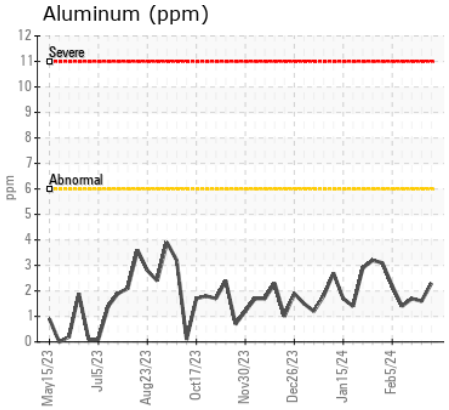
Iron (ppm)



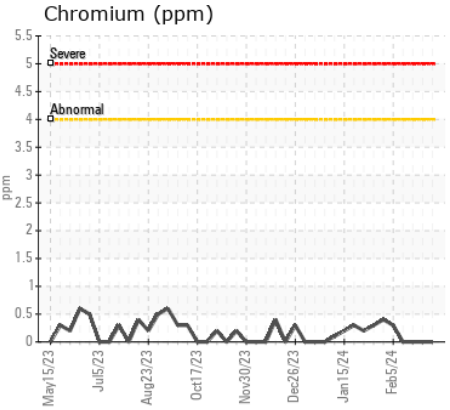
Lead (ppm)



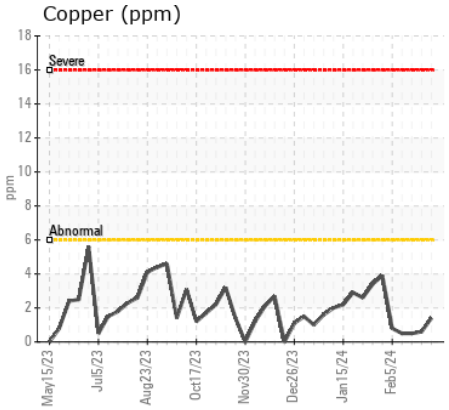
Aluminum (ppm)



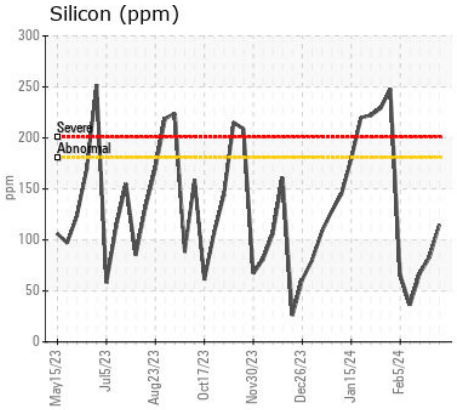
Chromium (ppm)



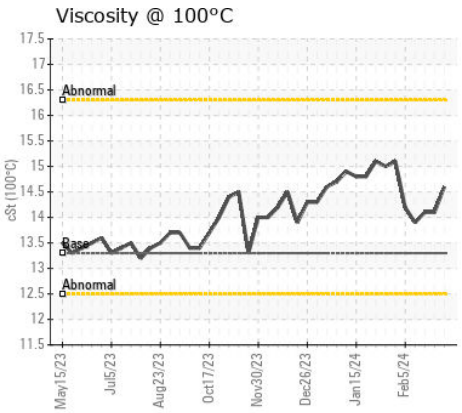
Copper (ppm)



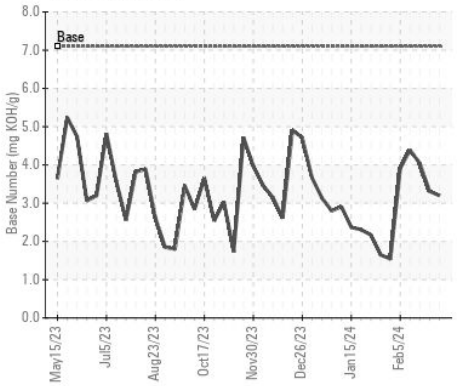
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0785398
Lab Number : 06098617
Unique Number : 10896847
Test Package : MOB 2

Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Sean Felton

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

Certificate L2367

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)