



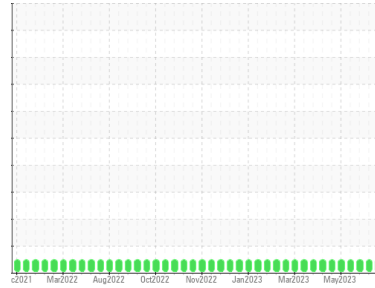
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
Pinconning CAT 2 PINM02BE
Component
Biogas Engine
Fluid
MOBIL PEGASUS 605 (--- GAL)



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.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0840776	WC0531420	WC0531436
Sample Date	Client Info		03 Nov 2023	31 May 2023	19 May 2023
Machine Age	hrs	Client Info	58965	58965	58681
Oil Age	hrs	Client Info	44636	876	592
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	<1	1	1
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >6	<1	<1	0
Lead	ppm	ASTM D5185m >9	0	0	0
Copper	ppm	ASTM D5185m >6	3	<1	<1
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	15	5	5
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	2	2
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	5	15	14
Calcium	ppm	ASTM D5185m	1523	1788	1687
Phosphorus	ppm	ASTM D5185m	245	299	275
Zinc	ppm	ASTM D5185m	319	358	360
Sulfur	ppm	ASTM D5185m	2115	3307	2571

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	29	125	99
Sodium	ppm	ASTM D5185m	5	1	0
Potassium	ppm	ASTM D5185m >20	2	0	2

INFRA-RED

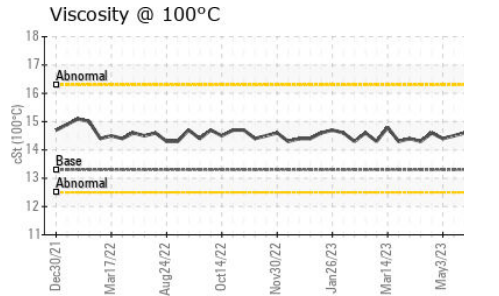
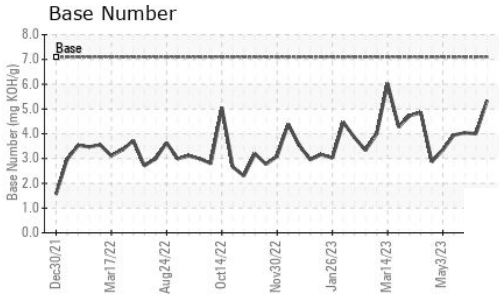
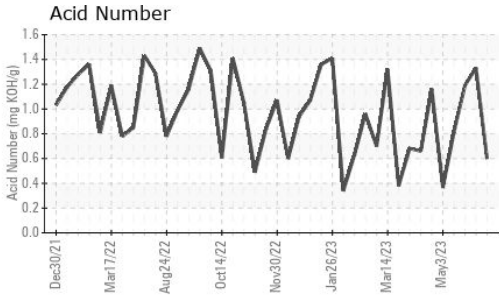
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	4.0	6.1	5.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	15.5	21.4	20.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	8.3	15.9	13.7
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	1.33	1.19
Base Number (BN)	mg KOH/g	ASTM D2896 7.1	5.34	4.00	4.04



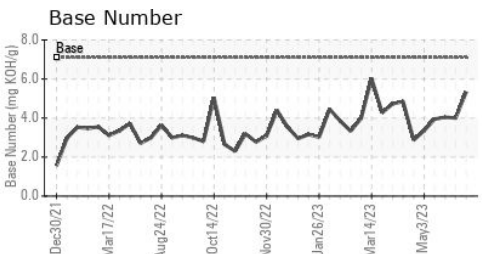
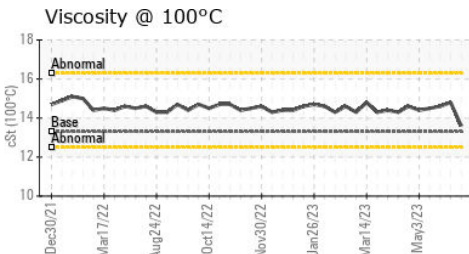
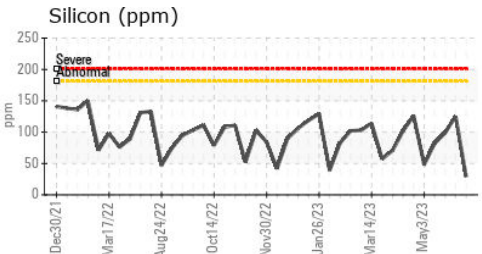
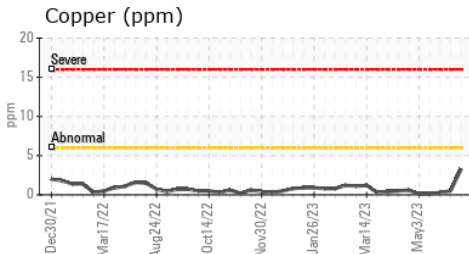
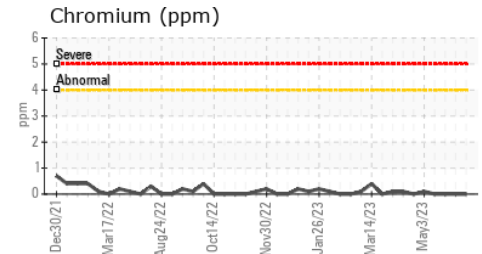
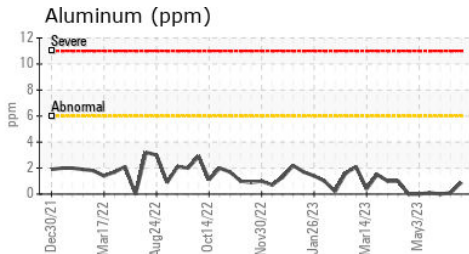
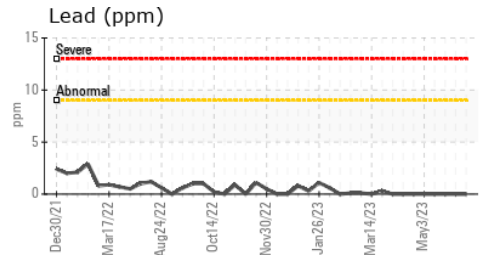
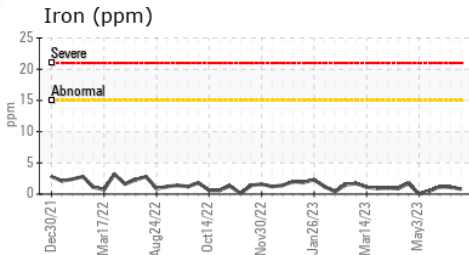
OIL ANALYSIS REPORT



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	13.6	14.8	14.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0840776 **Received** : 07 Nov 2023
Lab Number : 06000638 **Diagnosed** : 08 Nov 2023
Unique Number : 10728998 **Diagnostician** : Sean Felton
Test Package : MOB 2

EDL NA Recips-Pinconning
 Pinconning Powerstation, 2403 E. Whitefeather Road
 Pinconning, MI
 US 48650
 Contact: DOUG HINE
 doug.hine@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)

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