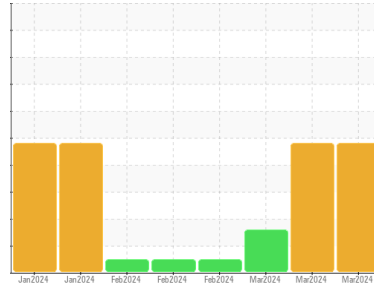




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



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

DIAGNOSIS

▲ Recommendation
 Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
 All component wear rates are normal.

▲ Contamination
 Elemental level of silicon (Si) above normal.

Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0840771	WC0840770	WC0840768
Sample Date	Client Info			26 Mar 2024	08 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		47373	47300	47131
Oil Age	hrs	Client Info		1138	1065	896
Oil Changed	Client Info			Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0		<1.0	<1.0	<1.0
Water	WC Method	>0.11		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	5	5	2
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	3	3	2
Lead	ppm	ASTM D5185m	>9	0	<1	0
Copper	ppm	ASTM D5185m	>6	2	2	1
Tin	ppm	ASTM D5185m	>4	2	3	2
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		55	64	83
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	4	2
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		25	28	30
Calcium	ppm	ASTM D5185m		1506	1506	1507
Phosphorus	ppm	ASTM D5185m		349	400	394
Zinc	ppm	ASTM D5185m		504	549	549
Sulfur	ppm	ASTM D5185m		3483	3583	3257

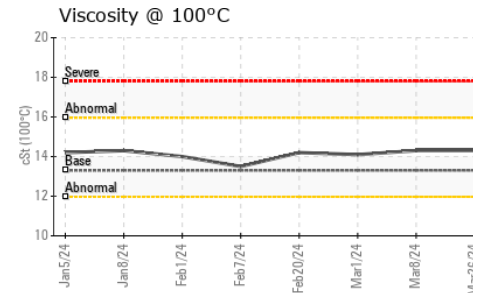
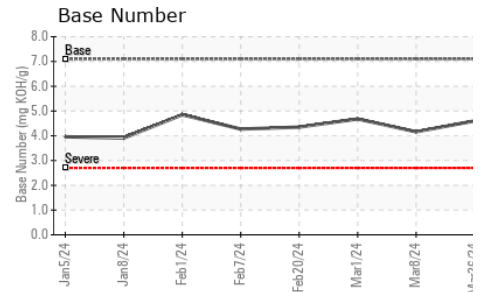
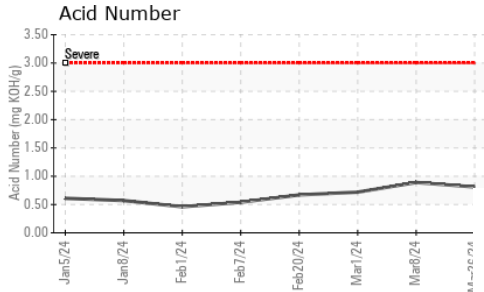
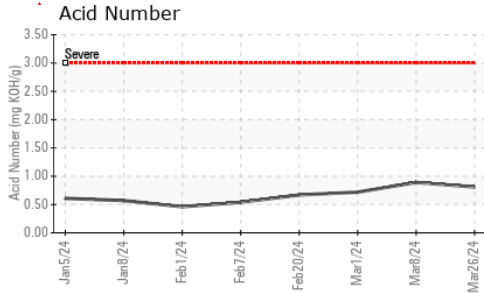
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	▲ 226	▲ 227	▲ 187
Sodium	ppm	ASTM D5185m	>21	2	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		3.9	3.8	3.8
Sulfation	Abs/.1mm	*ASTM D7415		18.3	18.1	17.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		10.8	10.6	10.3
Acid Number (AN)	mg KOH/g	ASTM D8045		0.810	0.89	0.719
Base Number (BN)	mg KOH/g	ASTM D2896	7.1	4.60	4.16	4.68



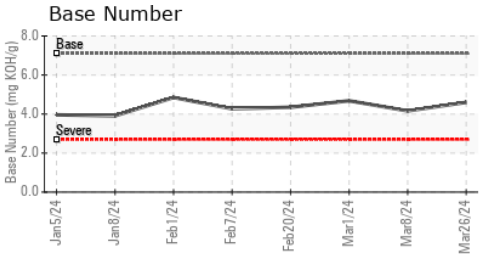
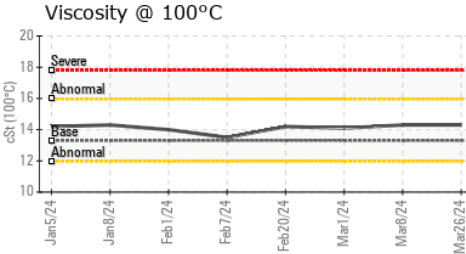
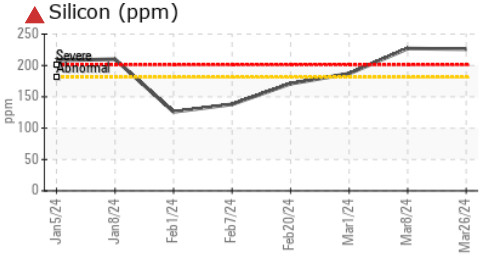
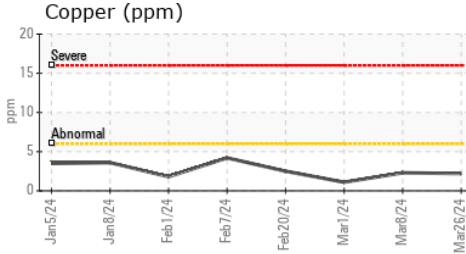
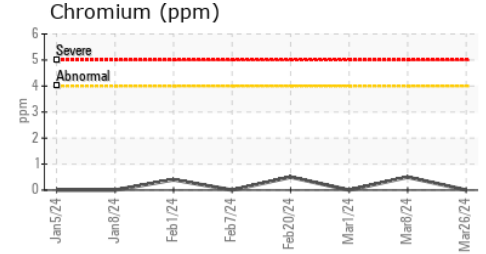
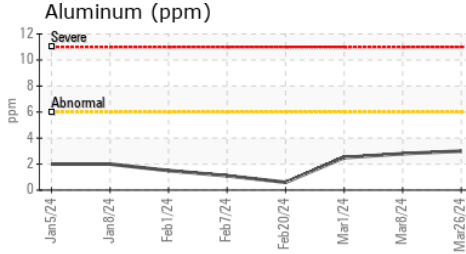
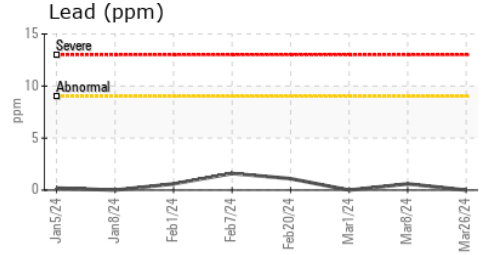
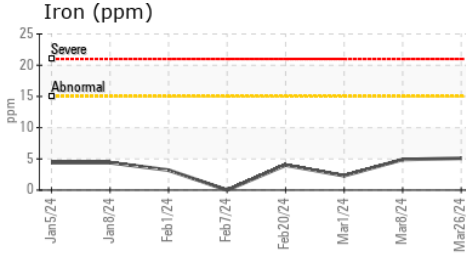
OIL ANALYSIS REPORT



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	>0.11	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.3	14.3	14.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0840771
 Lab Number : 06132230
 Unique Number : 10951695
 Test Package : MOB 2

Received : 28 Mar 2024
 Tested : 29 Mar 2024
 Diagnosed : 02 Apr 2024 - Sean Felton

EDL NA Recips-Pinconning
 Pinconning Powerstation, 2403 E. Whitefeather Road
 Pinconning, MI
 US 48650
 Contact: KEVIN ACKERMAN
 kevin.ackerman@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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