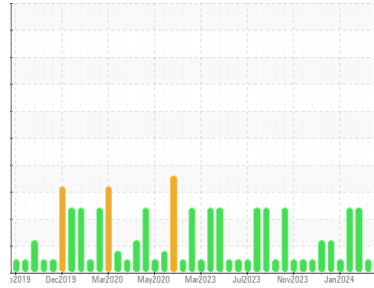




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
EDLTAY
Machine Id
TAYM01BE (S/N 1256576)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (180 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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0901613	WC0901578	WC0901655
Sample Date	Client Info		13 Mar 2024	05 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info	54540	8189	54540
Oil Age	hrs	Client Info	401	247	54340
Oil Changed	Client Info		Not Chngd	Changed	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Water	WC Method	>.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	4	1	3
Chromium	ppm	ASTM D5185m >4	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >6	2	2	3
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >6	<1	<1	1
Tin	ppm	ASTM D5185m >4	2	2	6
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	1	1	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	7	5	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	8	6	8
Calcium	ppm	ASTM D5185m	1749	1717	1945
Phosphorus	ppm	ASTM D5185m	265	239	258
Zinc	ppm	ASTM D5185m	297	306	352
Sulfur	ppm	ASTM D5185m	3617	2680	4279

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	9	6	33
Sodium	ppm	ASTM D5185m >20	3	<1	4
Potassium	ppm	ASTM D5185m >20	3	7	11

INFRA-RED

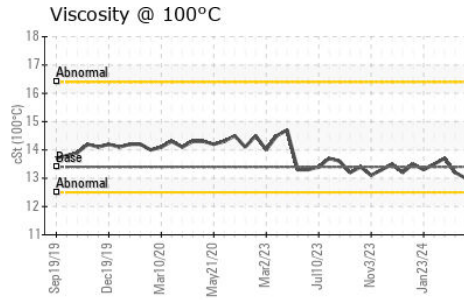
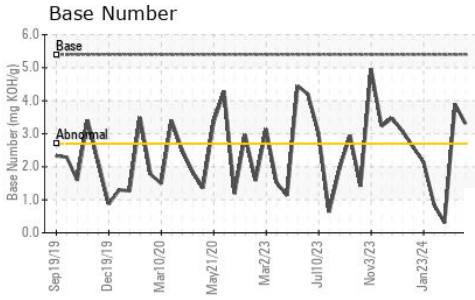
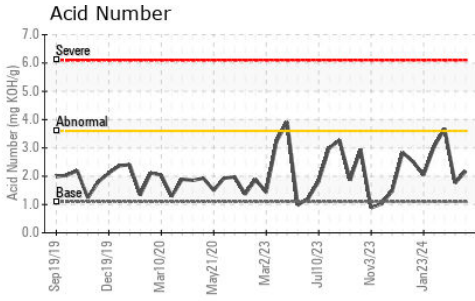
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.0	4.9	5.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.0	18.1	31.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	9.3	8.6	14.4
Acid Number (AN)	mg KOH/g	ASTM D8045 1.1	2.17	1.76	▲ 3.68
Base Number (BN)	mg KOH/g	ASTM D2896 5.4	3.30	3.89	▲ 0.30



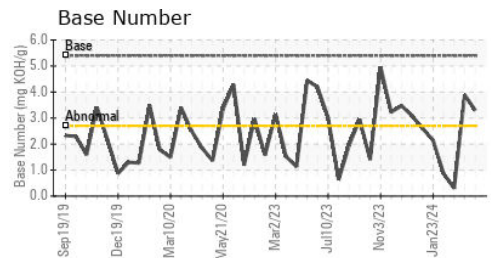
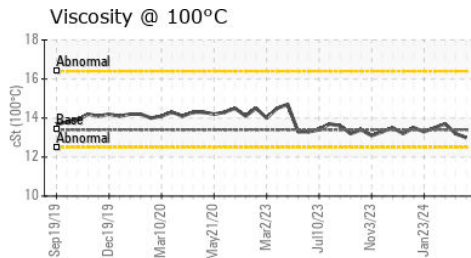
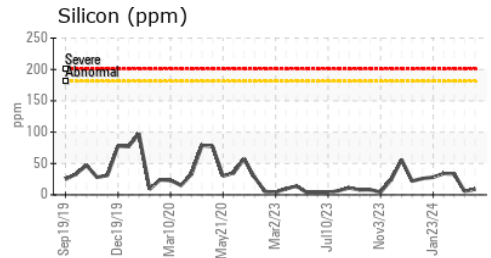
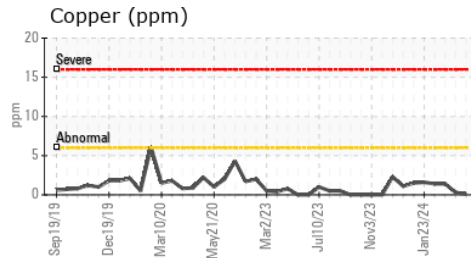
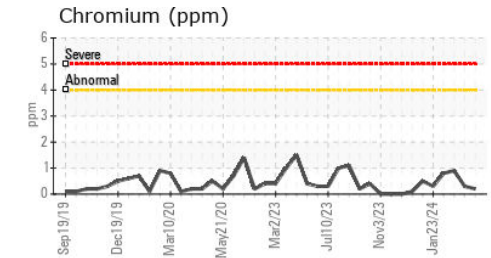
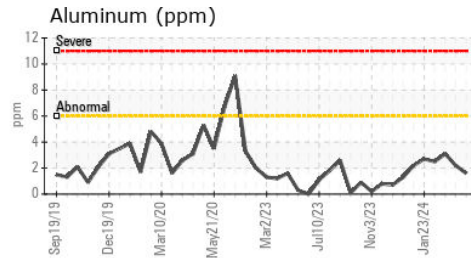
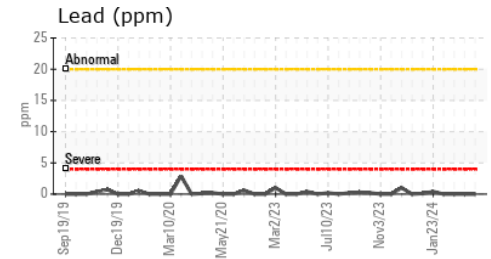
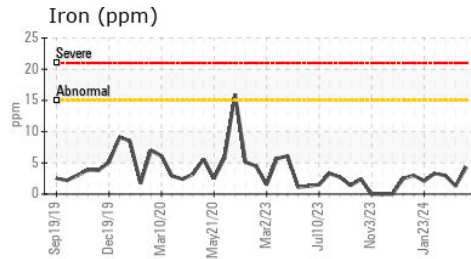
OIL ANALYSIS REPORT



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	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	13.4	13.0	13.2	13.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901613
Lab Number : **06123243**
Unique Number : 10937394
Test Package : MOB 2

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 22 Mar 2024 - Sean Felton

EDL NA Recips-Taylor County
 TAYLOR COUNTY POWER STATION, COUNTY ROAD 33 & STEWART ROAD
 MAUK, GA
 US 31058

Contact: STEVEN BABB
 steven.babb@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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F: