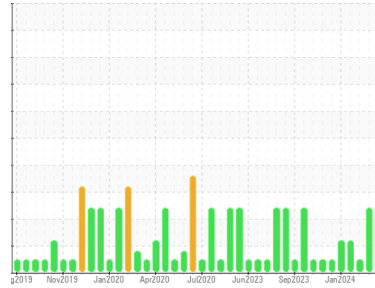




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
EDLTAY
Machine Id
TAYM01BE (S/N 1256576)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (180 GAL)



DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. 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 AN level is above the recommended limit. The BN level is low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0901655	WC0901618	WC0901570
Sample Date	Client Info		21 Feb 2024	13 Feb 2024	23 Jan 2024
Machine Age	hrs	Client Info	54540	7714	54540
Oil Age	hrs	Client Info	54340	54340	54340
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

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	3	3	2
Chromium	ppm	ASTM D5185m >4	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	0	<1
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >6	3	2	3
Lead	ppm	ASTM D5185m >20	0	0	<1
Copper	ppm	ASTM D5185m >6	1	1	2
Tin	ppm	ASTM D5185m >4	6	5	4
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	8	4	4
Calcium	ppm	ASTM D5185m	1945	1786	1923
Phosphorus	ppm	ASTM D5185m	258	239	257
Zinc	ppm	ASTM D5185m	352	345	326
Sulfur	ppm	ASTM D5185m	4279	3894	4307

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	33	34	28
Sodium	ppm	ASTM D5185m >20	4	4	<1
Potassium	ppm	ASTM D5185m >20	11	9	13

INFRA-RED

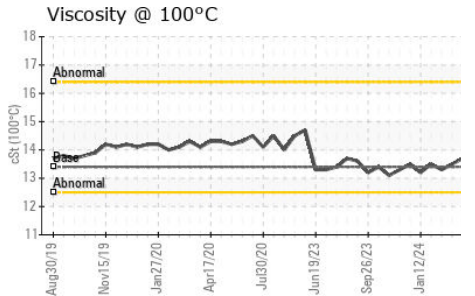
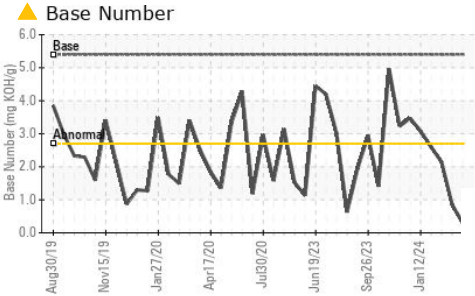
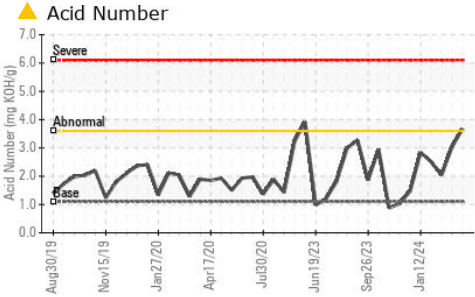
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	5.2	5.1	5.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	31.8	29.2	23.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.4	13.6	11.6
Acid Number (AN)	mg KOH/g	ASTM D8045 1.1	▲ 3.68	▲ 3.04	2.04
Base Number (BN)	mg KOH/g	ASTM D2896 5.4	▲ 0.30	▲ 0.86	2.14



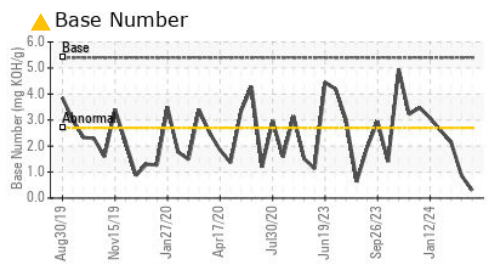
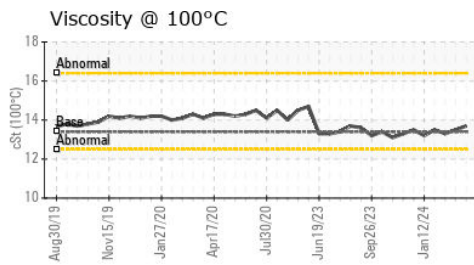
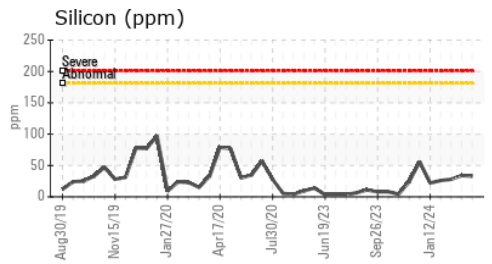
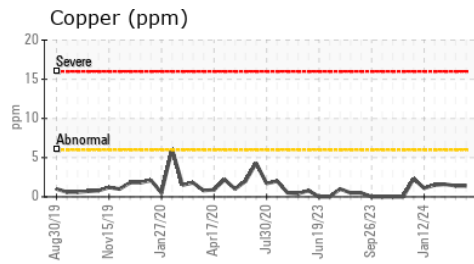
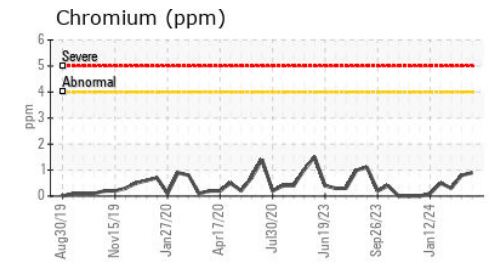
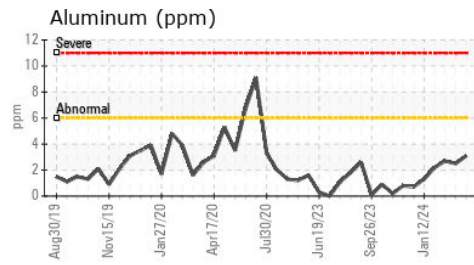
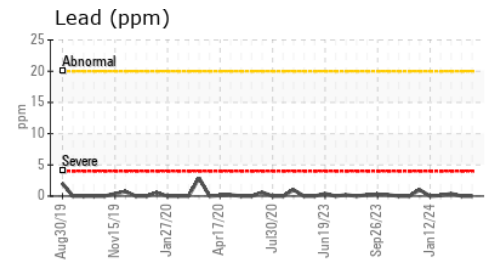
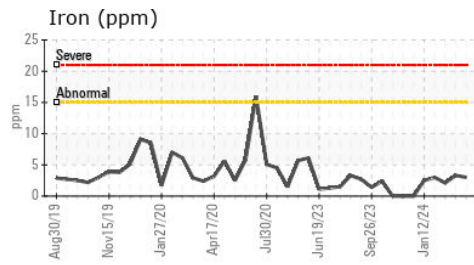
OIL ANALYSIS REPORT



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	13.7	13.5	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901655 **Received** : 23 Feb 2024
Lab Number : 06098628 **Tested** : 26 Feb 2024
Unique Number : 10896858 **Diagnosed** : 26 Feb 2024 - Sean Felton
Test Package : MOB 2

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)