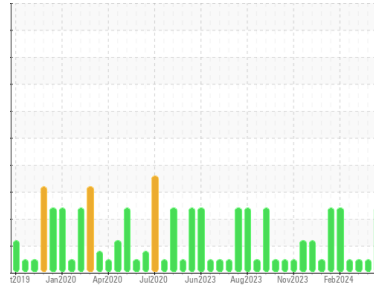




# OIL ANALYSIS REPORT

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		<b>WC0901599</b>	WC0901584	WC0901613
Sample Date	Client Info		<b>03 Apr 2024</b>	21 Mar 2024	13 Mar 2024
Machine Age	hrs	Client Info	<b>54540</b>	54540	54540
Oil Age	hrs	Client Info	<b>890</b>	578	401
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method		<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >14	<b>0</b>	<1	4
Chromium	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >5	<b>1</b>	0	2
Lead	ppm	ASTM D5185m >6	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >6	<b>3</b>	3	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>3</b>	4	7
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>6</b>	6	8
Calcium	ppm	ASTM D5185m	<b>1863</b>	1906	1749
Phosphorus	ppm	ASTM D5185m	<b>240</b>	266	265
Zinc	ppm	ASTM D5185m	<b>312</b>	314	297
Sulfur	ppm	ASTM D5185m	<b>3990</b>	4033	3617

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >180	<b>10</b>	11	9
Sodium	ppm	ASTM D5185m	<b>3</b>	1	3
Potassium	ppm	ASTM D5185m >20	<b>5</b>	3	3

## INFRA-RED

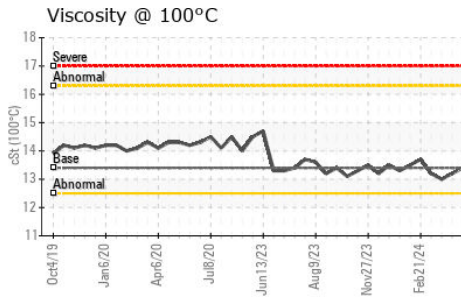
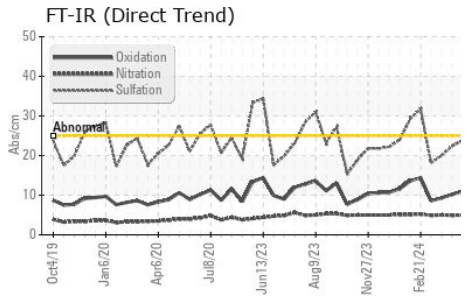
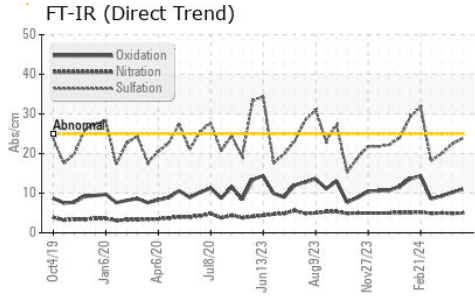
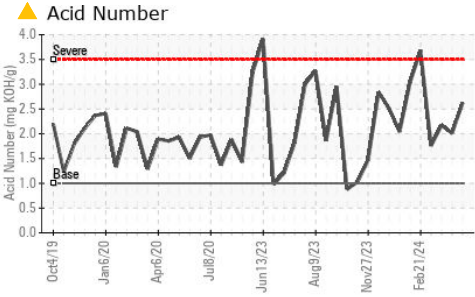
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.0</b>	4.9	5.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.8</b>	22.4	20.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >15	<b>11.0</b>	10.2	9.3
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>▲ 2.62</b>	2.01	2.17
Base Number (BN)	mg KOH/g	ASTM D2896 5.4	<b>▲ 0.93</b>	2.44	3.30



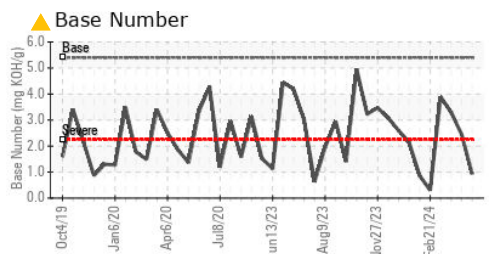
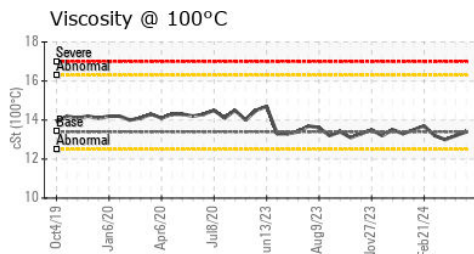
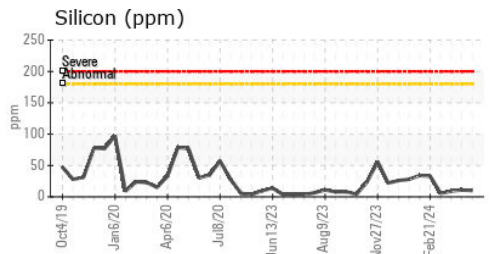
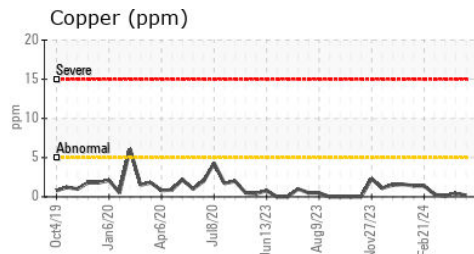
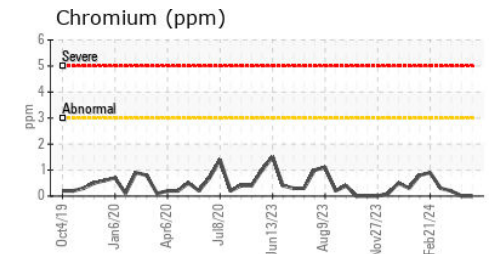
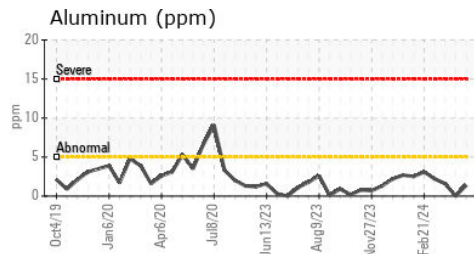
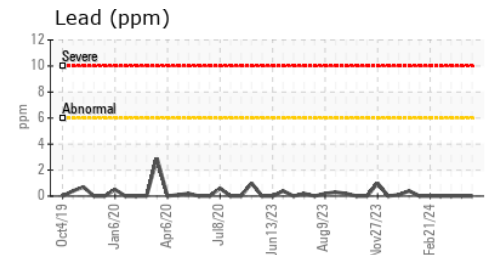
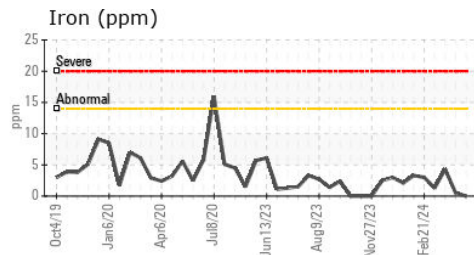
# OIL ANALYSIS REPORT



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	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901599  
**Lab Number** : 06143242  
**Unique Number** : 10968050  
**Test Package** : MOB 2  
**Received** : 09 Apr 2024  
**Tested** : 10 Apr 2024  
**Diagnosed** : 10 Apr 2024 - Jonathan Hester

**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)