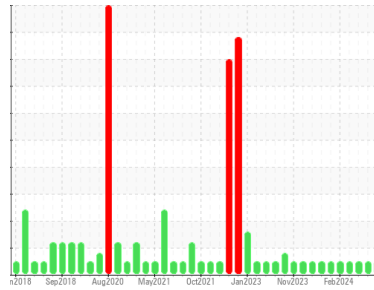




# OIL ANALYSIS REPORT

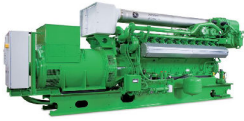
Sample Rating Trend



**NORMAL**



Area  
**EDLTAY**  
 Machine Id  
**TAYM04BE (S/N 1207234)**  
 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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0901602</b>	WC0901595	WC0901587
Sample Date	Client Info		<b>03 Apr 2024</b>	27 Mar 2024	21 Mar 2024
Machine Age	hrs	Client Info	<b>255116</b>	255116	255116
Oil Age	hrs	Client Info	<b>335</b>	167	23
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>NORMAL</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>	4	1
Chromium	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >5	<b>1</b>	2	0
Lead	ppm	ASTM D5185m >6	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >5	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m >6	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	3	2
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>16</b>	7	7
Calcium	ppm	ASTM D5185m	<b>1771</b>	1748	1799
Phosphorus	ppm	ASTM D5185m	<b>242</b>	245	257
Zinc	ppm	ASTM D5185m	<b>309</b>	321	307
Sulfur	ppm	ASTM D5185m	<b>2159</b>	1896	1863

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >180	<b>4</b>	9	7
Sodium	ppm	ASTM D5185m	<b>2</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.9</b>	4.9	4.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.6</b>	15.1	14.9

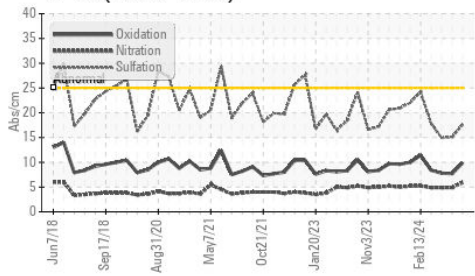
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >15	<b>9.9</b>	7.7	7.8
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>1.00</b>	0.75	1.522
Base Number (BN)	mg KOH/g	ASTM D2896 5.4	<b>4.32</b>	6.39	5.54

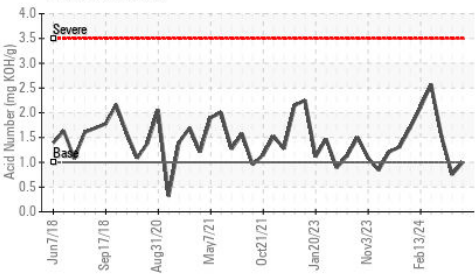


# OIL ANALYSIS REPORT

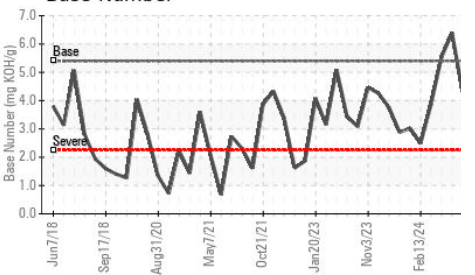
FT-IR (Direct Trend)



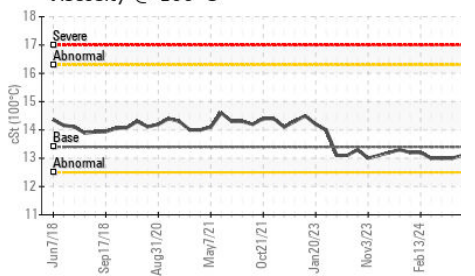
Acid Number



Base Number



Viscosity @ 100°C

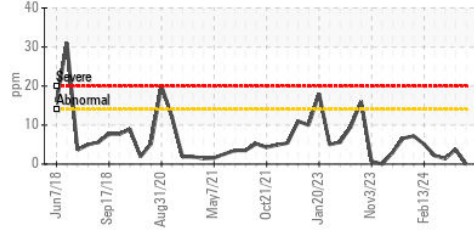


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

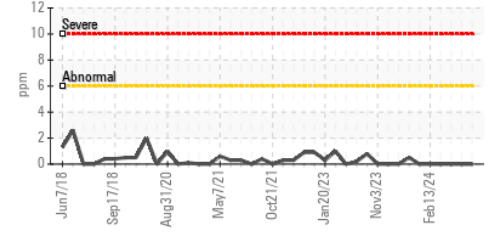
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	13.4	<b>13.1</b>	13.0	13.0

GRAPHS

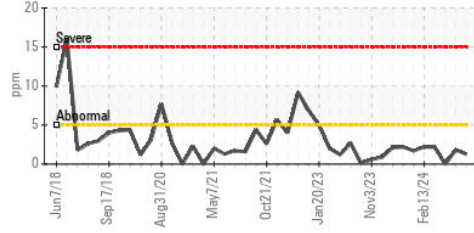
Iron (ppm)



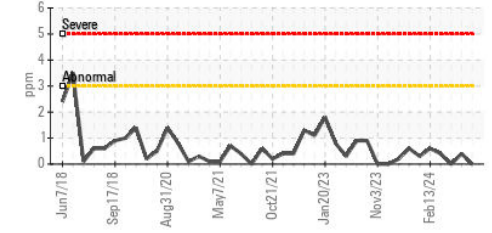
Lead (ppm)



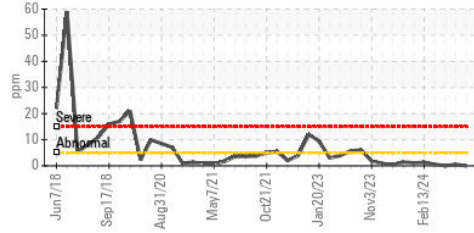
Aluminum (ppm)



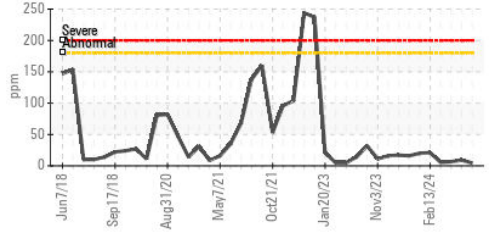
Chromium (ppm)



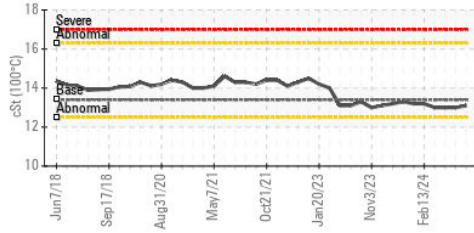
Copper (ppm)



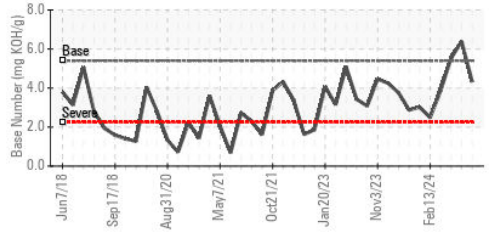
Silicon (ppm)



Viscosity @ 100°C



Base Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901602      **Received** : 09 Apr 2024  
**Lab Number** : 06143238      **Tested** : 10 Apr 2024  
**Unique Number** : 10968046      **Diagnosed** : 10 Apr 2024 - Jonathan Hester  
**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)