



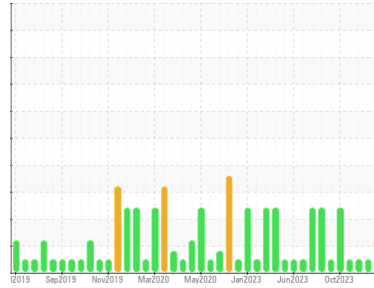
# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Area  
**EDLTAY**  
Machine Id  
**TAYM01BE (S/N 1256576)**  
Component  
**Biogas Engine**  
Fluid  
**CHEVRON HDAX 6500 LFG GAS ENGINE OIL (180 GAL)**



## DIAGNOSIS

### Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

### 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 at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0788192</b>	WC0788160	WC0788232
Sample Date	Client Info		<b>12 Jan 2024</b>	27 Nov 2023	16 Nov 2023
Machine Age	Client Info		<b>7209</b>	54540	54540
Oil Age	Client Info		<b>54340</b>	54340	200
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
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	>.2	<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	>15	<b>2</b>	0	0
Chromium	ppm ASTM D5185m	>4	<b>&lt;1</b>	0	0
Nickel	ppm ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m		<b>0</b>	<1	0
Silver	ppm ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>6	<b>1</b>	<1	<1
Lead	ppm ASTM D5185m	>20	<b>0</b>	1	0
Copper	ppm ASTM D5185m	>6	<b>1</b>	2	0
Tin	ppm ASTM D5185m	>4	<b>2</b>	2	2
Vanadium	ppm ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm ASTM D5185m		<b>0</b>	0	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>	1	0
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m		<b>7</b>	0	6
Calcium	ppm ASTM D5185m		<b>1890</b>	1635	1848
Phosphorus	ppm ASTM D5185m		<b>243</b>	229	279
Zinc	ppm ASTM D5185m		<b>332</b>	297	345
Sulfur	ppm ASTM D5185m		<b>3317</b>	1569	2889

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>181	<b>22</b>	56	24
Sodium	ppm ASTM D5185m	>20	<b>3</b>	5	1
Potassium	ppm ASTM D5185m	>20	<b>9</b>	0	5

## INFRA-RED

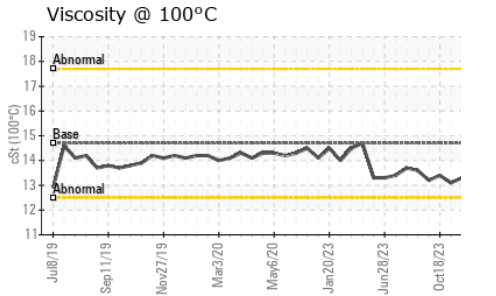
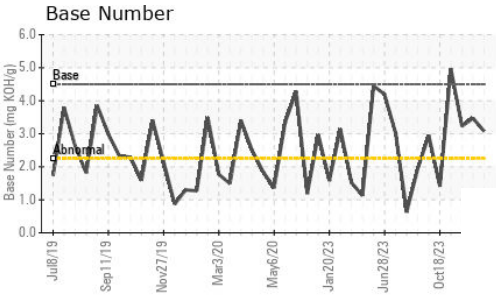
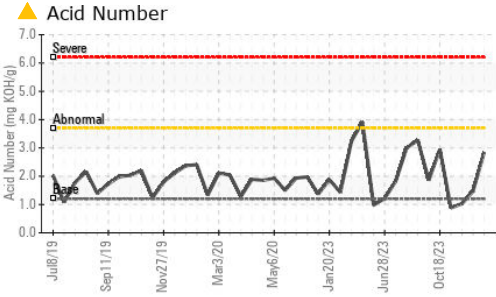
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>2	<b>0</b>	0	0
Nitration	Abs/cm *ASTM D7624	>20	<b>5.0</b>	5.0	5.0
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>21.8</b>	21.8	18.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>10.6</b>	10.4	8.9
Acid Number (AN)	mg KOH/g ASTM D8045	1.2	<b>2.84</b>	1.47	1.03
Base Number (BN)	mg KOH/g ASTM D2896	4.5	<b>3.08</b>	3.47	3.23



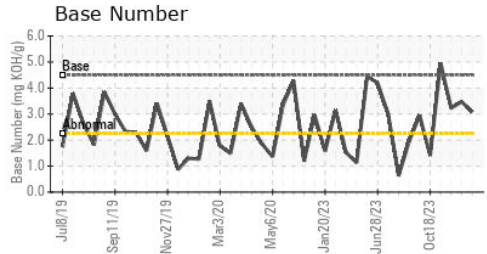
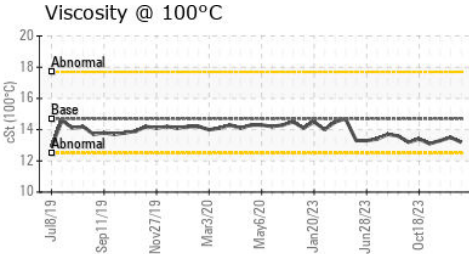
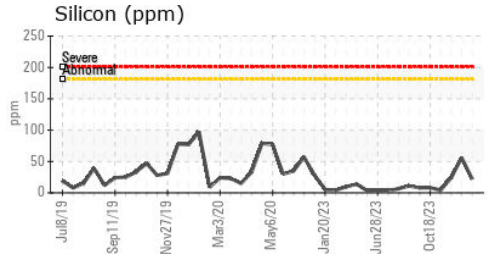
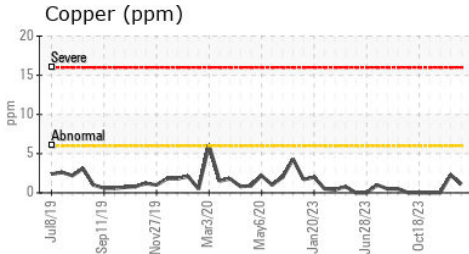
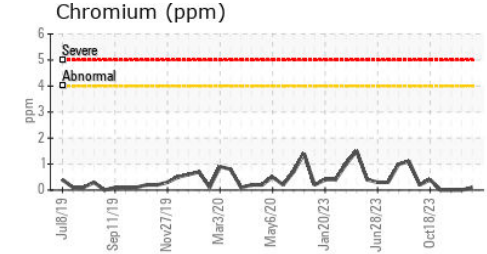
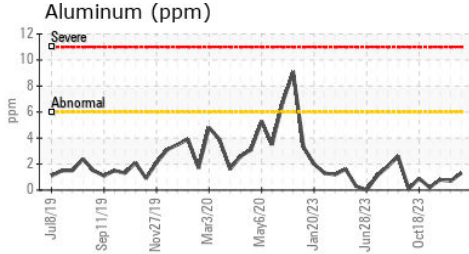
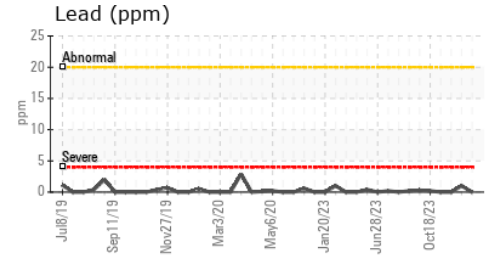
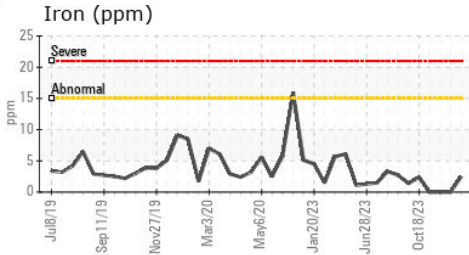
# OIL ANALYSIS REPORT



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	14.7	13.2	13.5

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0788192 **Recieved** : 17 Jan 2024  
**Lab Number** : 06062960 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834342 **Diagnostician** : Don Baldrige  
**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)