



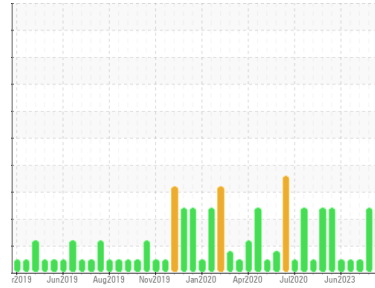
# OIL ANALYSIS REPORT

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 level is low. 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>WC0788233</b>	WC0788252	WC0788244
Sample Date	Client Info		<b>09 Aug 2023</b>	01 Aug 2023	10 Jul 2023
Machine Age	hrs	Client Info	<b>54540</b>	54540	3380
Oil Age	hrs	Client Info	<b>54340</b>	54340	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	<b>3</b>	3	2
Chromium	ppm	ASTM D5185m >4	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >6	<b>3</b>	2	1
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >6	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m >4	<b>5</b>	4	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>0</b>	0	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>10</b>	8	8
Calcium	ppm	ASTM D5185m	<b>1929</b>	1943	1887
Phosphorus	ppm	ASTM D5185m	<b>291</b>	281	285
Zinc	ppm	ASTM D5185m	<b>368</b>	374	349
Sulfur	ppm	ASTM D5185m	<b>5180</b>	4287	4360

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	<b>11</b>	7	3
Sodium	ppm	ASTM D5185m >20	<b>1</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	2

## INFRA-RED

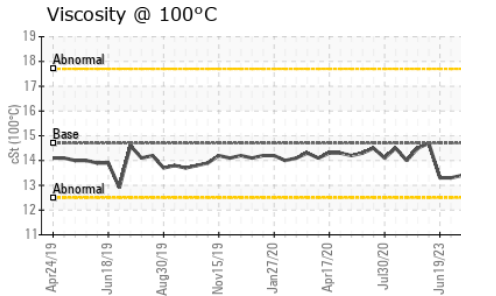
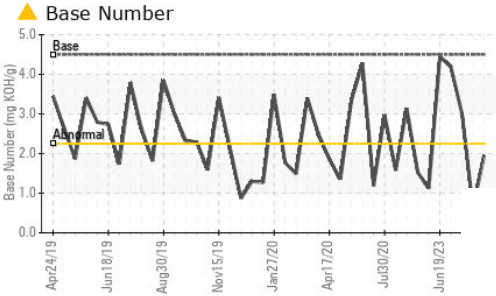
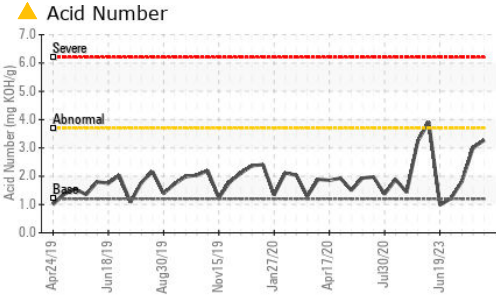
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.0</b>	4.9	5.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>31.0</b>	28.4	23.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.6</b>	12.8	12.0
Acid Number (AN)	mg KOH/g	ASTM D8045 1.2	<b>▲ 3.27</b>	▲ 3.00	1.82
Base Number (BN)	mg KOH/g	ASTM D2896 4.5	<b>▲ 1.95</b>	▲ 0.63	3.01



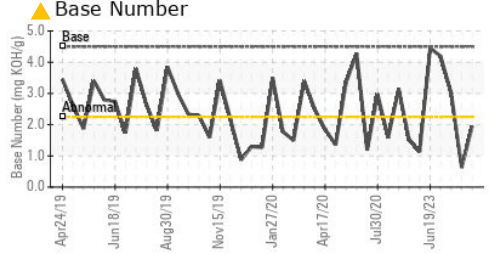
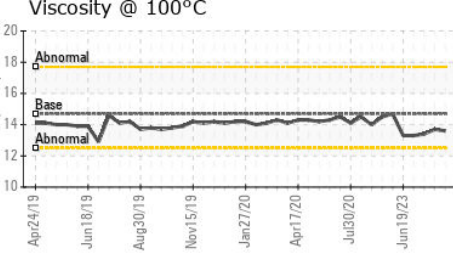
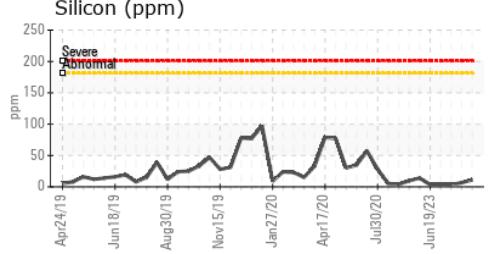
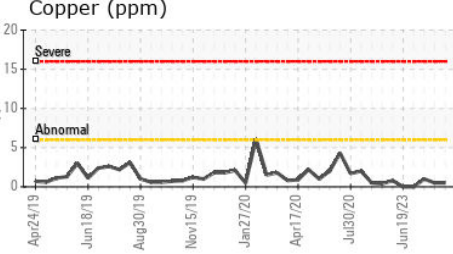
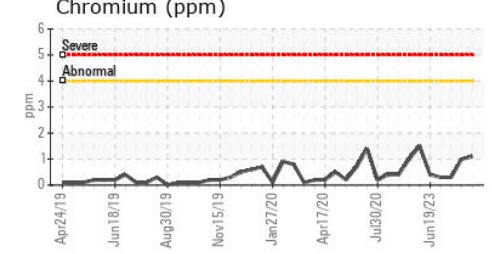
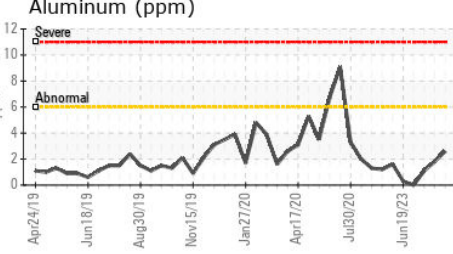
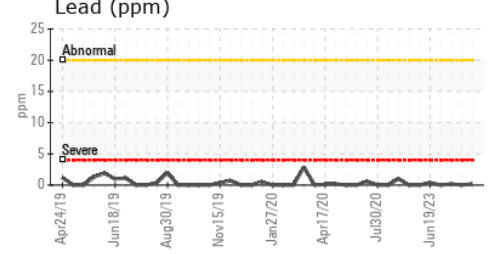
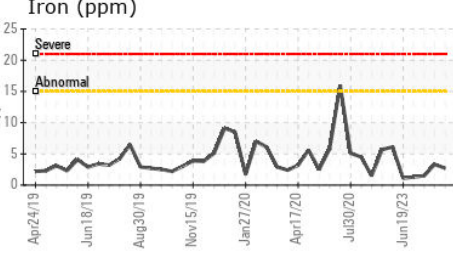
# OIL ANALYSIS REPORT



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	13.6	13.7

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0788233 **Received** : 11 Aug 2023  
**Lab Number** : 05922384 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 10602331 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2

**EDL NA Recips-Taylor County**  
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 MAUK, GA  
 US 31058  
 Contact: STEVEN BABB  
 steven.babb@edlenergy.com  
 T:  
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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)