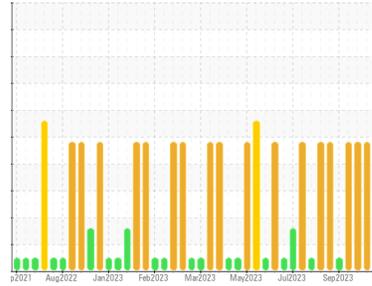




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**SAVM03BE (S/N GZJ00168)**  
 Component  
**Biogas Engine**  
 Fluid  
**CHEVRON HDAX 6500 LFG GAS ENGINE OIL (141 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>WC0788929</b>	WC0788926	WC0788923
Sample Date	Client Info		<b>30 Oct 2023</b>	23 Oct 2023	16 Oct 2023
Machine Age	hrs	Client Info	<b>172411</b>	172317	172151
Oil Age	hrs	Client Info	<b>70</b>	911	744
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>NORMAL</b>	SEVERE	SEVERE

## 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>2</b>	4	4
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>6	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>9	<b>0</b>	1	1
Copper	ppm	ASTM D5185m	>6	<b>2</b>	4	2
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	4	4
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>10</b>	3	2
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>17</b>	7	6
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>12</b>	10	10
Calcium	ppm	ASTM D5185m		<b>1715</b>	1788	1829
Phosphorus	ppm	ASTM D5185m		<b>269</b>	281	270
Zinc	ppm	ASTM D5185m		<b>327</b>	321	325
Sulfur	ppm	ASTM D5185m		<b>1833</b>	1649	1759

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>181	<b>53</b>	365	276
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	0	1

## INFRA-RED

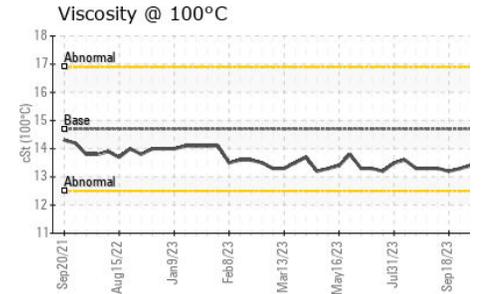
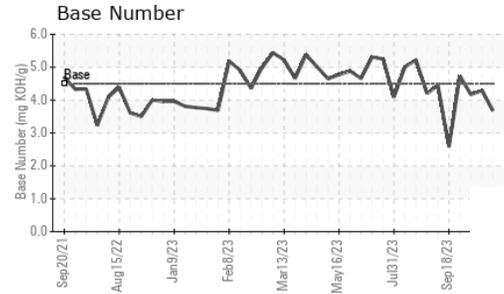
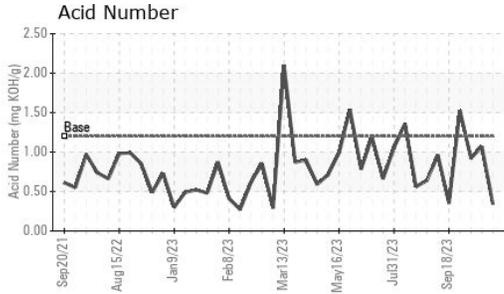
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.3</b>	6.3	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.3</b>	18.7	18.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.6</b>	12.3	11.2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	<b>0.34</b>	1.07	0.92
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	<b>3.68</b>	4.29	4.17



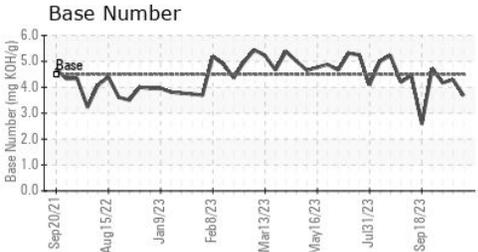
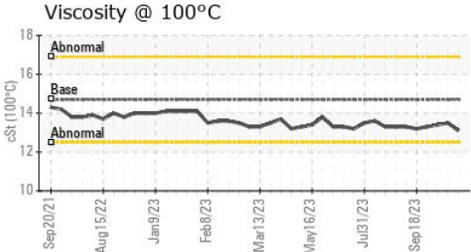
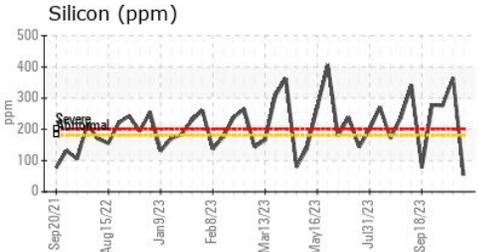
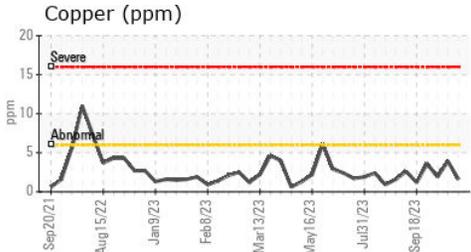
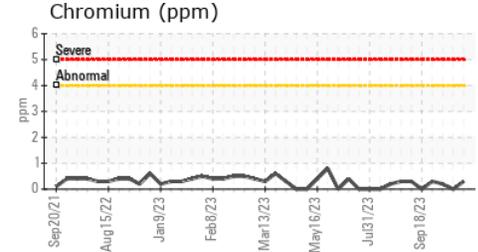
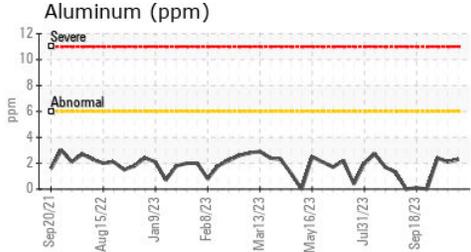
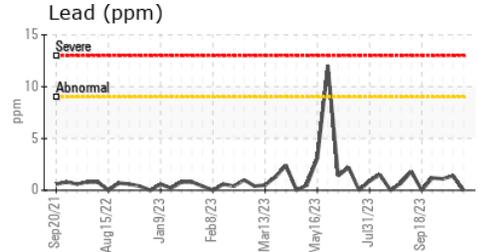
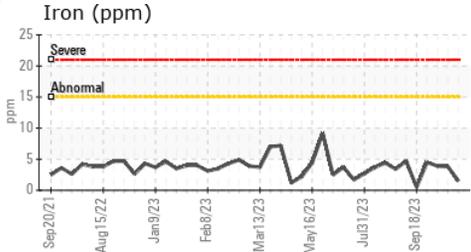
# OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	13.1	13.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0788929      **Received** : 01 Nov 2023  
**Lab Number** : 05995871      **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10724231      **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2

**EDL NA Recips-Sand Valley**  
 SAND VALLEY POWER STATION, 3345 COUNTY ROAD 209  
 COLLINSVILLE, AL  
 US 35961  
 Contact: BRANDON PEYTON  
 brandon.peyton@energydi.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)