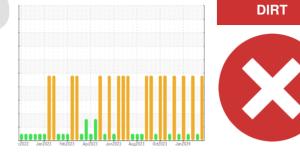


# **OIL ANALYSIS REPORT**



15.1

1.15

4.27

Sample Rating Trend



Machine Id SAVM01BE (S/N GZJ00645)

**Biogas Engine** Fluic

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (141 GAL)

	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		WC0788908	WC0788905	WC0788902
il and perform a t already done. o monitor this	Sample Date		Client Info		02 Apr 2024	14 Mar 2024	20 Feb 2024
	Machine Age	hrs	Client Info		1115390	1115009	1114565
	Oil Age	hrs	Client Info		642	261	511
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
l.	Sample Status				SEVERE	NORMAL	SEVERE
	CONTAMINATION		method	limit/base	current	history1	history2
normal.	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
suitable N level is	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>14	2	<1	6
	Chromium	ppm	ASTM D5185m	>3	0	0	<1
	Nickel	ppm	ASTM D5185m	20	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>5	2	1	1
	Lead	ppm	ASTM D5185m	>8	<1	2	4
	Copper	ppm	ASTM D5185m	>5	4	1	4
	Tin	ppm	ASTM D5185m	>3	2	1	3
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		8	8	3
	Barium	ppm	ASTM D5185m		0	0	5
	Molybdenum	ppm	ASTM D5185m		9	8	7
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		25	21	14
	Calcium	ppm	ASTM D5185m		1983	1844	1487
	Phosphorus	ppm	ASTM D5185m		272	276	227
	Zinc	ppm	ASTM D5185m		375	332	293
	Sulfur	ppm	ASTM D5185m		2054	1965	1793
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>180	<b>224</b>	121	<b>A</b> 215
	Sodium	ppm	ASTM D5185m	>20	2	2	0
	Potassium	ppm	ASTM D5185m	>20	<1	0	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.1	0	0.1
	Nitration	Abs/cm	*ASTM D7624		7.9	6.4	6.9
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	17.4	19.5
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Abs/.1mm \*ASTM D7414

mg KOH/g ASTM D2896 5.4

Acid Number (AN) mg KOH/g ASTM D8045 1.0

DIAGNOSIS

### Recommendation

We recommend that you drain the oil filter service on this component if not We recommend an early resample to condition.

### Wear

All component wear rates are normal.

## Contamination

Elemental level of silicon (Si) above n

#### Fluid Condition

The BN result indicates that there is s alkalinity remaining in the oil. The AN acceptable for this fluid.

Oxidation

Base Number (BN)

Submitted By: FRANK WILLIAMS

11.5

1.69

4.64

17.6

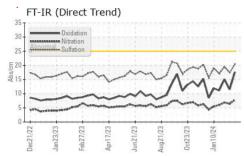
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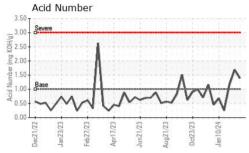
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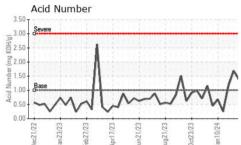
Page 1 of 2

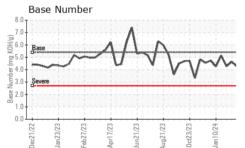


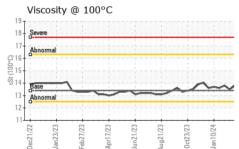
# **OIL ANALYSIS REPORT**



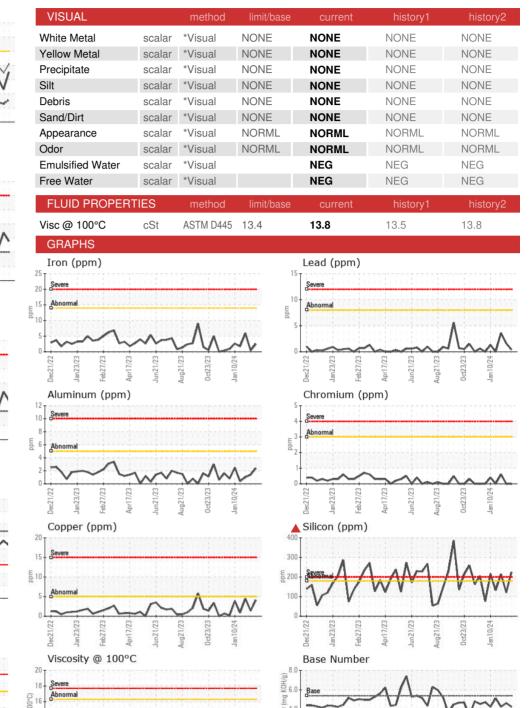












6.0

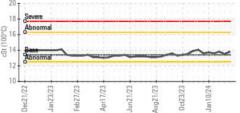
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: 04 Apr 2024

: 05 Apr 2024

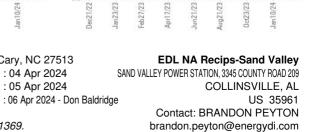


: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested



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.

: WC0788908

: 06138733

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: ENECOL [WUSCAR] 06138733 (Generated: 04/06/2024 13:00:12) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number

Unique Number : 10963541

Test Package : MOB 2

Submitted By: FRANK WILLIAMS

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T:

F: