

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





# Machine Id Coopersville CAT 1 CPVM01BE Component Biogas Engine Fluid

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

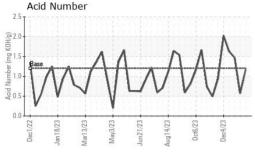
## Fluid Condition

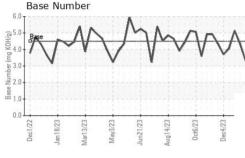
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

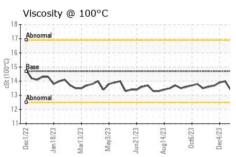
OAMBLE INFORM	AATION	02022 00020	II I II	Suite Magazo Suzezo		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871476	WC0871482	WC0871488
Sample Date		Client Info		05 Jan 2024	28 Dec 2023	19 Dec 2023
Machine Age	hrs	Client Info		14918	14727	14514
Oil Age	hrs	Client Info		404	213	1
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	70.1	NEG	NEG	NEG
WEAR METALS			limit/base			
		method		current	history1	history2
Iron	ppm	ASTM D5185m	>15	1	<1	1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m		1	2	<1
Lead	ppm	ASTM D5185m	>9	<1	2	0
Copper	ppm	ASTM D5185m		<1	2	<1
Tin	ppm	ASTM D5185m	>4	3	3	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	0	2
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		20	10	17
Calcium	ppm	ASTM D5185m		1788	1678	1707
Phosphorus	ppm	ASTM D5185m		303	271	238
Zinc	ppm	ASTM D5185m		323	320	292
Sulfur	ppm	ASTM D5185m		1634	1660	1436
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	115	89	34
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.2	5.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	16.3	14.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	10.7	8.4
Acid Number (AN)	mg KOH/g		1.2			
ACIG NUMBER (AIV)	IIIg NOII/u	AOTIVI DOUTS	1.4	1.17	0.57	1.47
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	1.17 3.30	0.57 4.34	5.14

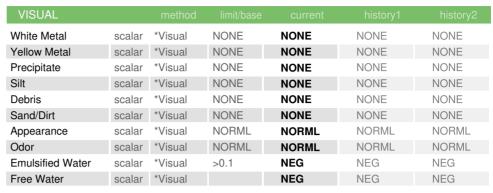


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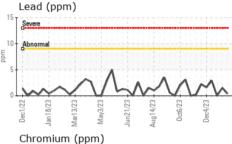


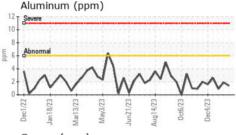


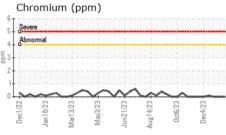
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Visc @ 100°C	cSt	ASTM D445	14.7	13.6	13.6	13.4

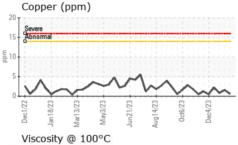
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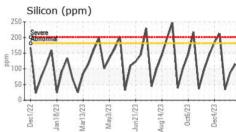
**GRAPHS** 

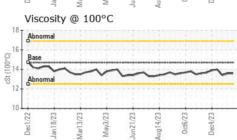


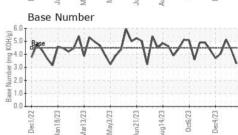
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number Test Package**  : WC0871476 : 06055512

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 10821461 : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 : 10 Jan 2024 Diagnosed

Diagnostician : Don Baldridge **EDL NA Recips-Coopersville** 

Coopersville Powerstation, 15362 68th Avenue Coopersville, MI US 49404

Contact: Daniel Young

daniel.young@edlenergy.com T:

\* - 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)

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