

## **OIL ANALYSIS REPORT**

Sample Rating Trend





WVTM02BE Component

**Biogas Engine** Fluid

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

SAMPLE INFORMATION



	Recommendation	
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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.

### A Wear

The iron level is abnormal.

## Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is above the recommended limit. The BN level is low.

	ATION	methou	IIIIII/Dase	Current	Thistory I	Thistory2
Sample Number		Client Info		WC0785321	WC0785318	WC0785388
Sample Date		Client Info		04 Dec 2023	30 Nov 2023	20 Nov 2023
Machine Age	hrs	Client Info		41969	41877	41642
Oil Age	hrs	Client Info		387	295	642
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	NORMAL
	_					
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	<b>1</b> 8	▲ 13	6
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm		>2	1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	2	2
Lead	ppm	ASTM D5185m	>9	6	5	4
Copper	ppm	ASTM D5185m	>6	2	<1	<1
Tin	ppm	ASTM D5185m	>4	6	4	4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		8	8	9
Calcium	ppm	ASTM D5185m		1757	1950	1707
Phosphorus	ppm	ASTM D5185m		269	296	273
Zinc	ppm	ASTM D5185m		348	402	311
Sulfur	ppm	ASTM D5185m		3480	4044	3533
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	176	161	129
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	0	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.8	4.9	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.9	26.7	25.2
			11		In the transmission	history 0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
FLUID DEGRADA	Abs/.1mm	method *ASTM D7414	>25		14.5	13.8
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.5	13.8



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