

# **OIL ANALYSIS REPORT**

Sample Rating Trend

# NORMAL

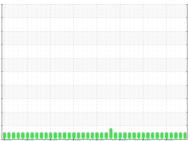


### Machine Id Pinconning CAT 1 PINM01BE Component

**Biogas Engine** 

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

SAMPLE INFORMATION method





DIAGNOOIO
Recommendation
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.

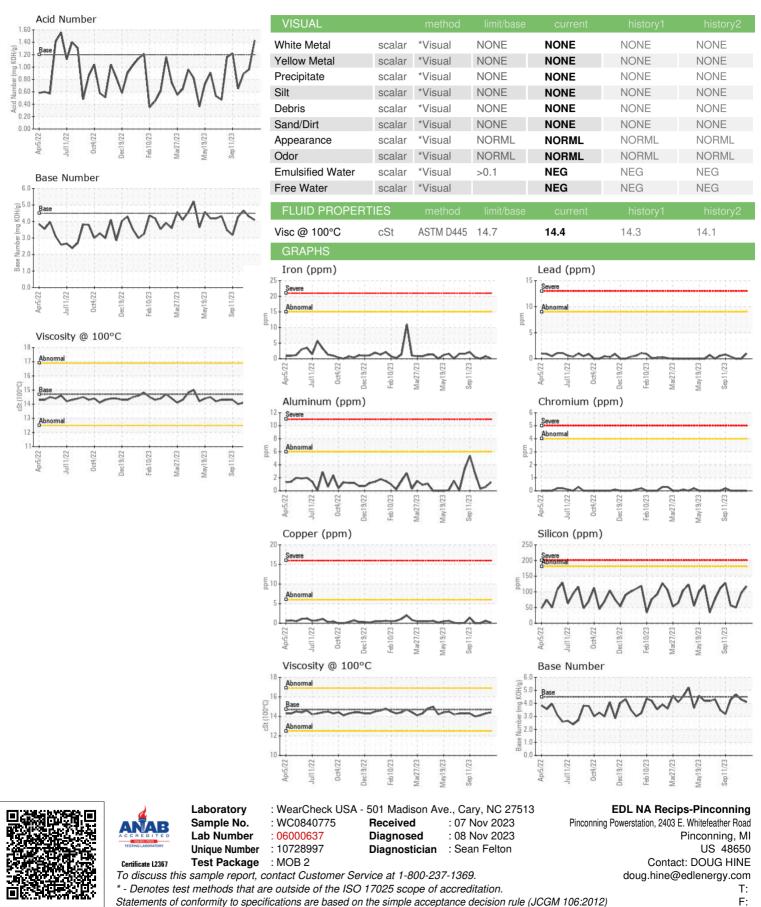
## Fluid Condition

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 Number		Client Info		WC0840775	WC0840765	WC0531421
Sample Date		Client Info		03 Nov 2023	12 Oct 2023	02 Oct 2023
Machine Age	hrs	Client Info		123861	123389	123163
Oil Age	hrs	Client Info		101008	647	421
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	<1	<1	0
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	1	<1	<1
Lead	ppm	ASTM D5185m	>9	1	0	0
Copper	ppm	ASTM D5185m	>6	<1	<1	0
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		5	0	10
Calcium	ppm	ASTM D5185m		1735	1609	1510
Phosphorus	ppm	ASTM D5185m		266	226	215
Zinc	ppm	ASTM D5185m		360	281	335
Sulfur	ppm	ASTM D5185m		2300	1901	2158
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	117	96	50
Sodium	ppm	ASTM D5185m		2	2	0
Potassium	ppm	ASTM D5185m	>20	<1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.3	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	18.2	17.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	11.9	10.8
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.43	0.96	0.893
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	4.09	4.29	4.66



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