

OIL ANALYSIS REPORT

Sample Rating Trend

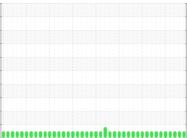
NORMAL



Pinconning CAT 1 PINM01BE Component

Biogas Engine

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

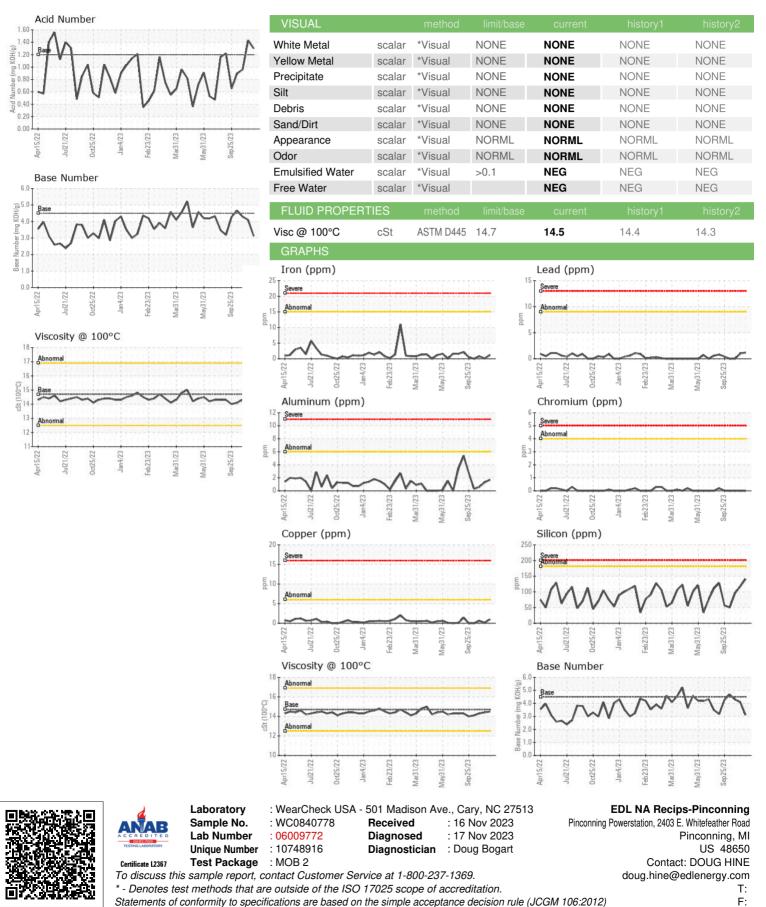




DIAGNOSIS	SAMPLE INFOR	MATION	method				history2
ecommendation	Sample Number		Client Info		WC0840778	WC0840775	WC0840765
esample at the next service interval to monitor.	Sample Date		Client Info		13 Nov 2023	03 Nov 2023	12 Oct 2023
ear	Machine Age	hrs	Client Info		124144	123861	123389
component wear rates are normal.	Oil Age	hrs	Client Info		400	101008	647
•	Oil Changed		Client Info		Changed	N/A	Not Changd
ontamination here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATIO	N	method	limit/base	current	history1	history2
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.	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	<1
	Chromium	ppm	ASTM D5185m	>4	0	0	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	<1
	Lead	ppm	ASTM D5185m		1	1	0
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		1	1	<1
	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		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		6	5	0
	Calcium	ppm	ASTM D5185m		1862	1735	1609
	Phosphorus	ppm	ASTM D5185m		269	266	226
	Zinc	ppm	ASTM D5185m		391	360	281
	Sulfur	ppm	ASTM D5185m		2515	2300	1901
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>181	141	117	96
	Sodium	ppm	ASTM D5185m		2	2	2
	Potassium	ppm	ASTM D5185m	>20	<1	<1	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.9	5.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.1	18.2
		ATION	method	limit/base	current	history1	history2
	FLUID DEGRAD						
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.3	11.9
			*ASTM D7414 ASTM D8045		16.5 1.30	15.3 1.43	11.9 0.96



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Submitted By: BRENDA RODRIGUEZ