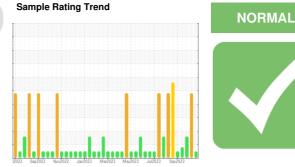


OIL ANALYSIS REPORT



Machine Id BRCM03BE (S/N GZJ00395) Component

Biogas Engine

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (150 GAL)

X 6500 LF	FG GAS ENGINE OIL (1	50 GAL)	12022 Sep20	22 Nov2022 Jan2023	Mar2023 May2023 Jul2023	Sep2023	
	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		WC0760823	WC0760817	WC0760962
nitor.	Sample Date		Client Info		16 Oct 2023	11 Oct 2023	02 Oct 2023
	Machine Age	hrs	Client Info		89217	89120	88921
	Oil Age	hrs	Client Info		93	610	411
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
n the	Sample Status				NORMAL	SEVERE	ABNORMAL
	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
oil is	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>15	<1	2	<1
	Chromium	ppm	ASTM D5185m	>4	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	>6	1	2	1
	Lead	ppm	ASTM D5185m	>9	1	3	1
	Copper	ppm	ASTM D5185m	>6	<1	<1	1
	Tin	ppm	ASTM D5185m	>4	4	6	4
	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		5	8	8
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		1	4	4
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		21	18	29
	Calcium	ppm	ASTM D5185m		1838	2037	2008
	Phosphorus	ppm	ASTM D5185m		311	295	316
	Zinc	ppm	ASTM D5185m		381	413	430
	Sulfur	ppm	ASTM D5185m		1889	2134	2163
	CONTAMINANTS	\$	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>181	166	247	1 91
	Sodium	ppm	ASTM D5185m		0	<1	<1
	Potassium	ppm	ASTM D5185m	>20	0	<1	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.8	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.9	18.6
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	14.6	12.4
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	0.83	1.29	1.18
	Base Number (BN)	mg KOH/g	ASTM D2896	4.5	4.14	4.86	6.09

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

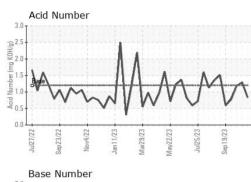
There is no indication of any contamination in the oil.

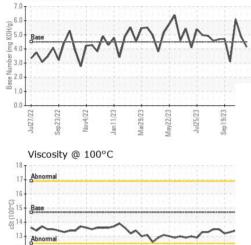
Fluid Condition

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.



OIL ANALYSIS REPORT





an11/23

w22/23

Sep 19/23

en23/77



Certificate L2367

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