

OIL ANALYSIS REPORT

Sample Rating Trend

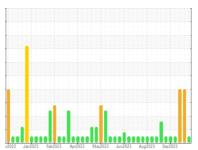
NORMAL



Grand Blanc CAT 4 GBLM04BE

Component
Biogas Engine

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





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

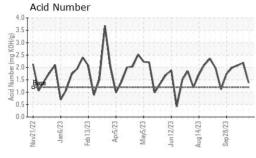
Fluid Condition

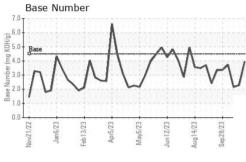
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

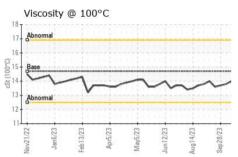
SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info WC0870038 WC0824975 WC082498 Sample Date Client Info 06 Nov 2023 26 Oct 2023 12 Oct 2023 Machine Age hrs Client Info 65347 65091 64830 Dil Age hrs Client Info 0 0 789 Dil Changed Client Info N/A N/A Not Change Sample Status NORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method VC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2
Sample Date Client Info 06 Nov 2023 26 Oct 2023 12 Oct 2023 Machine Age hrs Client Info 65347 65091 64830 Dil Age hrs Client Info 0 0 789 Dil Changed Client Info N/A N/A Not Change Sample Status NORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history1 Fuel WC Method VC Method NEG NEG WEAR METALS method limit/base current history1 history1
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Fuel WC Method >4.0 <1.0
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1
WEAR METALS method limit/base current history1 history:
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ron ppm ASTM D5185m >15 2 5 6
Chromium ppm ASTM D5185m >4 0 0 <1
Nickel ppm ASTM D5185m >2 0 <1 0
Fitanium ppm ASTM D5185m 0 <1 0
Silver ppm ASTM D5185m >5 0 0 0
Aluminum ppm ASTM D5185m >6 1 2 2
_ead
Copper ppm ASTM D5185m >14 <1 2 3
Fin ppm ASTM D5185m >4 1 3 3
/anadium ppm ASTM D5185m 0 0 0
Cadmium ppm ASTM D5185m 0 0 0
ADDITIVES method limit/base current history1 history3
ADDITIVES method limit/base current history1 history: Boron ppm ASTM D5185m 0 2 2
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Boron ppm ASTM D5185m 0 2 2 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 2 2 2 2 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 9 0 2 2 Calcium ppm ASTM D5185m 1786 1857 1753 1753 Phosphorus ppm ASTM D5185m 258 231 241 241 Zinc ppm ASTM D5185m 333 317 288 Sulfur ppm ASTM D5185m 2644 2746 2562 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >181 88 191 183 Godium ppm ASTM D5185m 20 0 <1 0
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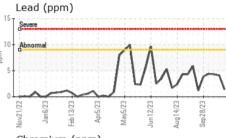


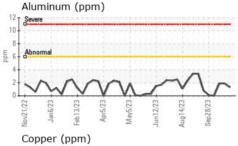


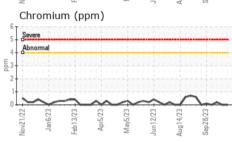
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

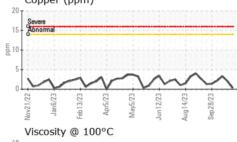
FLUID FROFER	THES	memou			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.7	13.6	14.2	14.0

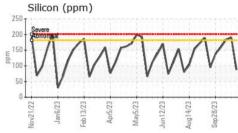
Severe							
Abnom	nal	11 11	11111				
						-	1
1	1/	1	11	1	1	1	V
V	V	1	N	1	1	V	V
V	Jan6/23	1	Apr5/23	May5/23	7 52/2	V EZ/4	Sep28/23

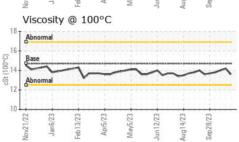


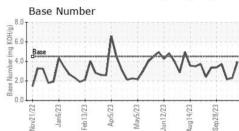
















Certificate L2367

Laboratory Sample No. Lab Number Test Package : MOB 2

Unique Number

: WC0870038 : 06000636 : 10728996

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician

: 07 Nov 2023 : 08 Nov 2023 : Sean Felton

EDL NA Recips-Grand Blanc

Grand Blanc Powerstation, 2361 West Grand Blanc Road Grand Blanc, MI US 48439

Contact: Tony Saint Marie

tony.saintmarie@edlenergy.com T:

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

* - 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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