

OIL ANALYSIS REPORT

Sample Rating Trend

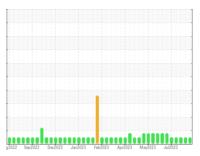
NORMAL



Machine Id **Grand Blanc CAT 2 GBLM02BE** Component

Biogas Engine

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

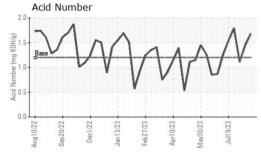
Fluid Condition

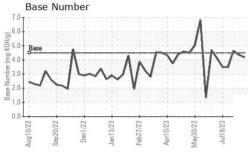
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

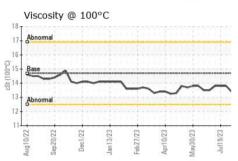
	history2
Sample Number Client Info WC0825043 WC0825005	WC0824958
Sample Date Client Info 24 Aug 2023 14 Aug 2023	04 Aug 2023
Machine Age hrs Client Info 6955 6780	6536
Oil Age hrs Client Info 0 433	193
Oil Changed Client Info N/A Not Changd	Changed
Sample Status NORMAL NORMAL	NORMAL
CONTAMINATION method 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 8 2	1
Chromium ppm ASTM D5185m >4 <1	0
Nickel ppm ASTM D5185m >2 <1 0	0
Titanium ppm ASTM D5185m 0 0	0
Silver ppm ASTM D5185m >5 0 0	0
Aluminum ppm ASTM D5185m >6 3 1	2
Lead ppm ASTM D5185m >9 1 <1	<1
Copper ppm ASTM D5185m >14 14 13	8
Tin ppm ASTM D5185m >4 3 1	1
Vanadium ppm ASTM D5185m 0 <1	<1
Cadmium ppm ASTM D5185m 0 0	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m <1 <1	<1
	· ·
Boron ppm ASTM D5185m <1 <1	<1
Boron ppm ASTM D5185m <1	<1
Boron ppm ASTM D5185m <1	<1 0 4
Boron ppm ASTM D5185m <1	<1 0 4 <1
Boron ppm ASTM D5185m <1	<1 0 4 <1 15
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1 0
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1 0 history2 0
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1 0 history2 0 5.4
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1 0 5.4 18.2
Boron ppm ASTM D5185m <1	<1 0 4 <1 15 1945 281 333 2990 history2 64 1 0 5.4 18.2 history2



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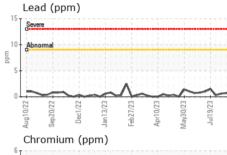


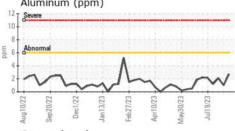


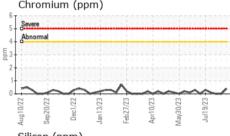
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

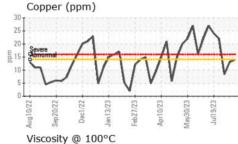
FLUID PROPER	THES	method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	14.7	13.6	13.5	13.4

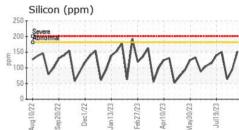
Iro	n (pp	m)						
20 - Seve	ere				4444			
15 - Abn	ormal				-			
10				Λ				1
5-	V	~		11	~~	_^	~~	1
0/22	1/22	1/22	3/23	7/23	1/23)/23	3/23	
Aug10/22	Sep20/22	Dec1/23	Jan 13	Feb27/	Apr10	May30/7	Jul19/23	
Λlu	minu	m (nr	m)					

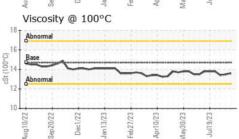


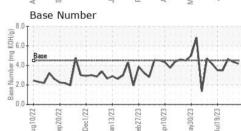
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : MOB 2

: WC0825043 : 05934961

: 10620232

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Aug 2023 : 28 Aug 2023 Diagnosed

Diagnostician : 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:

* - 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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