

# **OIL ANALYSIS REPORT**

Sample Rating Trend

## NORMAL



Grand Blanc CAT 6 GBLM06BE

Biogas Engine

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



Sample Number		Client Info		WC0795399	WC0795412	WC0795384
Sample Date		Client Info		05 Jun 2023	30 May 2023	09 May 202
Machine Age	hrs	Client Info		86060	85923	85417
Oil Age	hrs	Client Info		409	271	608
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMA
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	4	2	4
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	<1	<1	<1
Lead	ppm	ASTM D5185m	>9	3	2	4
Copper	ppm	ASTM D5185m	>6	1	1	<1
Tin	ppm	ASTM D5185m	>4	2	1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		10	5	8
Calcium	ppm	ASTM D5185m		1901	1815	1875
Phosphorus	ppm	ASTM D5185m		281	271	283
Zinc	ppm	ASTM D5185m		331	291	331
Sulfur	ppm	ASTM D5185m		3558	3263	3670
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	98	75	126
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		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.6	6.1

Sullation	AUS/.111111	A3110107413	>30	24.2	21.7	20.4
FLUID DEGRADA	TION	method				history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	12.8	18.4
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.76	1.48	<b>2</b> .43
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	4.72	4.21	<b>1</b> .70

### Diricinoolo

Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 400hr Oil Sample )

## Wear

All component wear rates are normal.

### Contamination

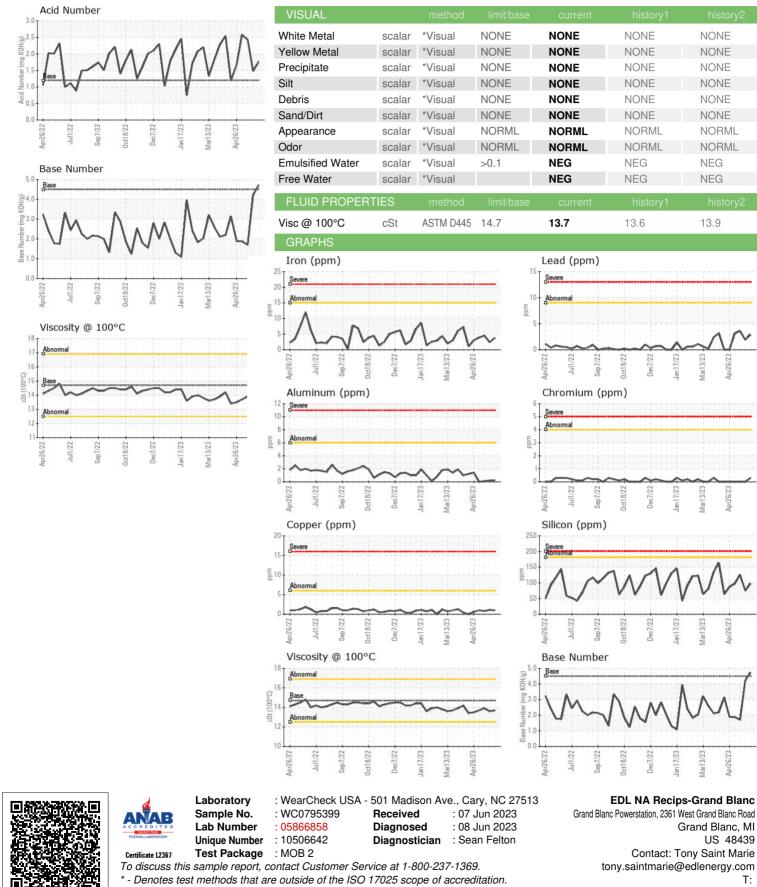
There is no indication of any contamination in the oil.

### 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.



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Submitted By: DARREL HILTZ

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Apr26/23

US 48439

T:

F:

Var13/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.9

Aar13/23

vpr26/23

Aar13/23