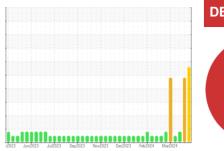


OIL ANALYSIS REPORT

Sample Rating Trend









Grand Blanc CAT 2 GBLM02BE

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. (Customer Sample Comment: 800hr Oil Sample)

Wear

The lead level is abnormal.

Contamination

Elemental level of silicon (Si) above normal.

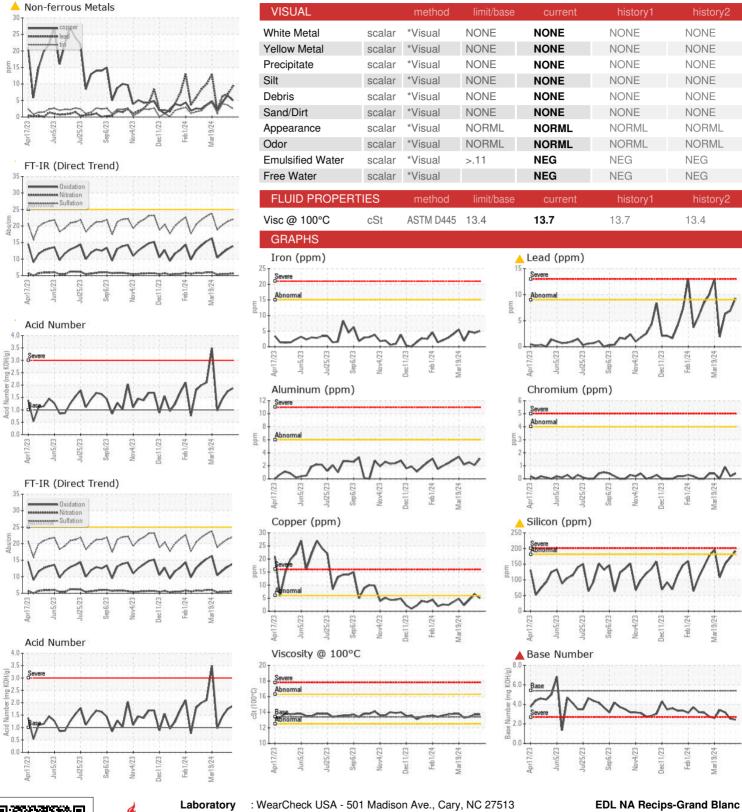
Fluid Condition

The BN level is low. The AN level is acceptable for this fluid.

S ENGINE OIL 40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0905674	WC0905705	WC0905755
Sample Date		Client Info		24 Apr 2024	18 Apr 2024	10 Apr 2024
Machine Age	hrs	Client Info		12532	12348	12158
Dil Age	hrs	Client Info		800	603	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				SEVERE	SEVERE	ABNORMAI
CONTAMINATIO	N	method	limit/base	current	history1	history2
- uel		WC Method	>4.0	<1.0	<1.0	<1.0
Vater		WC Method	>.11	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>15	5	4	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	0	1
- itanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	3	2	2
ead	ppm	ASTM D5185m	>9	<u>^</u> 9	7	6
Copper	ppm	ASTM D5185m	>6	5	<u>^</u> 6	4
in	ppm	ASTM D5185m	>4	2	<u> </u>	<u> </u>
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	8	7
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		3	3	4
Manganese	ppm	ASTM D5185m		<1	1	1
//agnesium	ppm	ASTM D5185m		12	16	12
Calcium	ppm	ASTM D5185m		1842	1872	1755
Phosphorus	ppm	ASTM D5185m		269	282	295
Zinc	ppm	ASTM D5185m		330	356	338
Sulfur	ppm	ASTM D5185m		3412	3481	3115
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	192	171	150
Sodium	ppm	ASTM D5185m	>21	2	2	0
Potassium	ppm	ASTM D5185m	>20	0	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
litration	Abs/cm	*ASTM D7624		5.6	5.5	5.5
Sulfation	Abs/.1mm	*ASTM D7415		22.0	21.4	20.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414		13.9	13.0	11.8
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.87	1.75	1.44
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	2.43	2.53	3.19



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06161682 Unique Number : 10997105

: WC0905674 Test Package : MOB 2

Received : 26 Apr 2024 **Tested** : 29 Apr 2024 Diagnosed

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

: 29 Apr 2024 - Sean Felton

Contact: Tony Saint Marie tony.saintmarie@edlenergy.com T:

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

F: