

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id DECM02BE (S/N 4EK00128)

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (100 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 20 GAL)

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

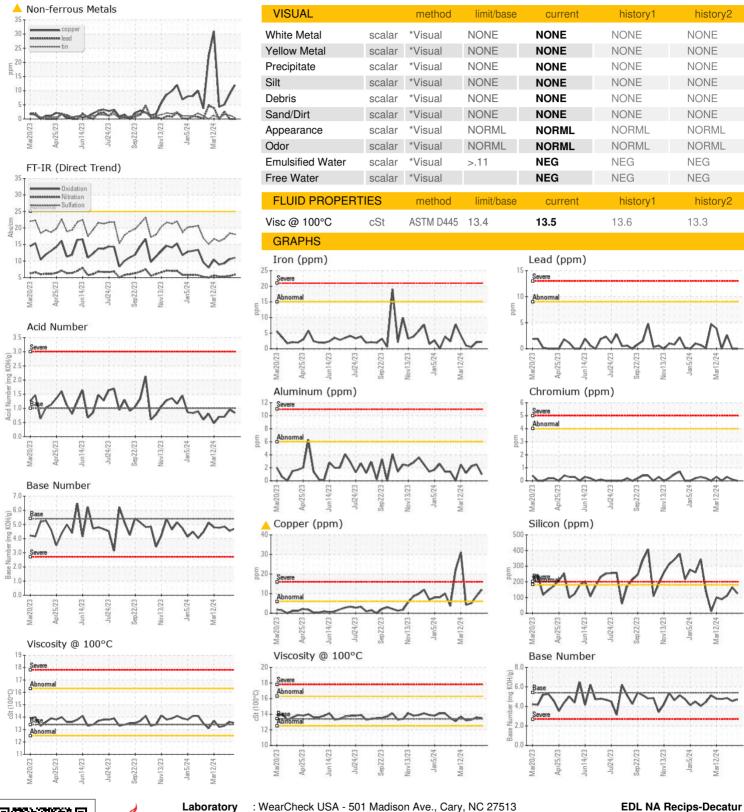
Fluid Condition

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 acceptable for the time in service.

ENGINE OIL 40 (10	io GAL)	Irzuza Aprzu	23 Jun2023 Jul2023	00p2023 100V2023 0812024	VIOLENZA	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0732841	WC0732893	WC0732896
Sample Date		Client Info		13 May 2024	19 Apr 2024	10 Apr 2024
Machine Age	hrs	Client Info		61329	60934	60721
Oil Age	hrs	Client Info		60557	60557	60557
Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
-uel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		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	2	2	<1
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	1	2	2
Lead	ppm	ASTM D5185m	>9	0	0	3
Copper	ppm	ASTM D5185m	>6	<u> </u>	<u>^</u> 9	5
Tin	ppm	ASTM D5185m	>4	<1	1	2
/anadium	ppm	ASTM D5185m	77	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES	PP	method	limit/base		history1	history2
Boron	nnm	ASTM D5185m		3	3	2
	ppm	ASTM D5185m		0	0	0
Barium	ppm					
Molybdenum	ppm	ASTM D5185m		3	7	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		13	16	19
Calcium	ppm	ASTM D5185m		1873	1907	1942
Phosphorus	ppm	ASTM D5185m		288	300	303
Zinc	ppm	ASTM D5185m		363	387	382
Sulfur	ppm	ASTM D5185m		2800	3153	2696
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	126	165	111
Sodium	ppm	ASTM D5185m	>21	3	7	5
Potassium	ppm	ASTM D5185m	>20	0	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		5.9	5.5	5.3
Sulfation	Abs/.1mm	*ASTM D7415		18.1	18.4	16.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414		11.0	10.6	9.3
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.84	0.95	0.70
				0.07	0.00	0.70
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	4.71	4.54	4.85



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number : 06180329 Unique Number : 11031655

: WC0732841 Test Package : MOB 2

Received : 15 May 2024 **Tested** : 16 May 2024

Diagnosed : 17 May 2024 - Sean Felton

Contact: JEFF SUMMERS jeff.summers@energydevelopments.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)

620 LANDFILL DRIVE

TRINITY, AL

US 35673

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