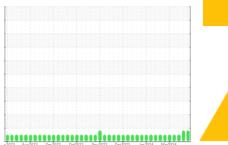


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Hancock CAT 3 (S/N 3RC00176)

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (95 GAL)

## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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

### Contamination

There is no indication of any contamination in the

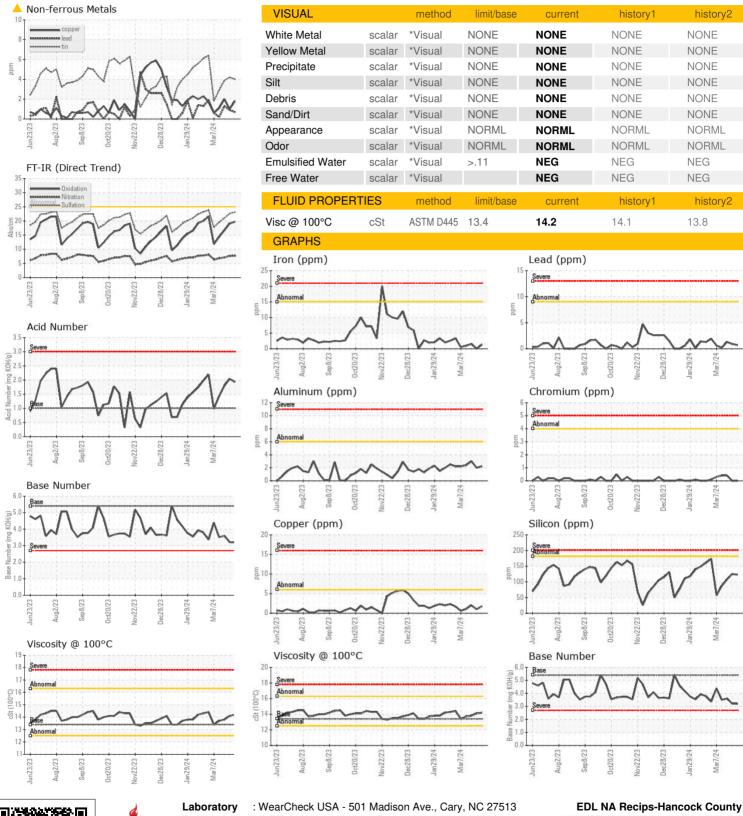
### **Fluid Condition**

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 suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898111	WC0898121	WC0898126
Sample Date		Client Info		03 Apr 2024	29 Mar 2024	19 Mar 2024
Machine Age	hrs	Client Info		74711	74591	74351
Oil Age	hrs	Client Info		784	664	424
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		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	1	0	2
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	2	3
_ead	ppm	ASTM D5185m	>9	<1	<1	1
Copper	ppm	ASTM D5185m	>6	2	1	2
Γin	ppm	ASTM D5185m	>4	<u> 4</u>	<u>4</u>	4
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	9	6
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		3	0	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		17	7	11
Calcium	ppm	ASTM D5185m		1918	1956	1966
Phosphorus	ppm	ASTM D5185m		304	305	283
Zinc	ppm	ASTM D5185m		381	371	373
Sulfur	ppm	ASTM D5185m		3133	3039	2719
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	123	125	108
Sodium	ppm	ASTM D5185m	>21	1	2	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Vitration	Abs/cm	*ASTM D7624		7.7	7.6	7.1
Sulfation	Abs/.1mm	*ASTM D7415		23.1	22.6	21.0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		19.7	19.1	16.7
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.93	2.04	1.80
Base Number (BN)	ma KOH/a	ASTM D2896	5.4	3.20	3.21	3.60



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

: WC0898111 Lab Number : 06140094 Unique Number : 10964902 Test Package : MOB 2

Received

: 05 Apr 2024 **Tested** : 08 Apr 2024 Diagnosed : 08 Apr 2024 - Don Baldridge

HANCOCK COUNTY POWER STATION, 3574 TOWNSHIP ROAD 142 FINDLAY, OH

US 45840 Contact: TIM CUSICK tim.cusick@edlenergy.com

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)

Report Id: ENEFIN [WUSCAR] 06140094 (Generated: 04/08/2024 15:49:42) Rev: 1

Submitted By: TIM CUSICK

T:

F: