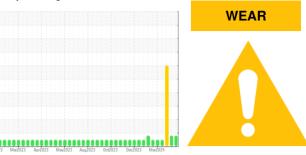


# **OIL ANALYSIS REPORT**

### Sample Rating Trend





# JENBACHER GM03 (S/N 1144731)

Biogas Engine

MAHLER Q8 Mahler G8 SAE 40 (--- GAL)

## DIAGNOSIS

#### Recommendation

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

#### Wear

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

#### Contamination

There is no indication of any contamination in the oil

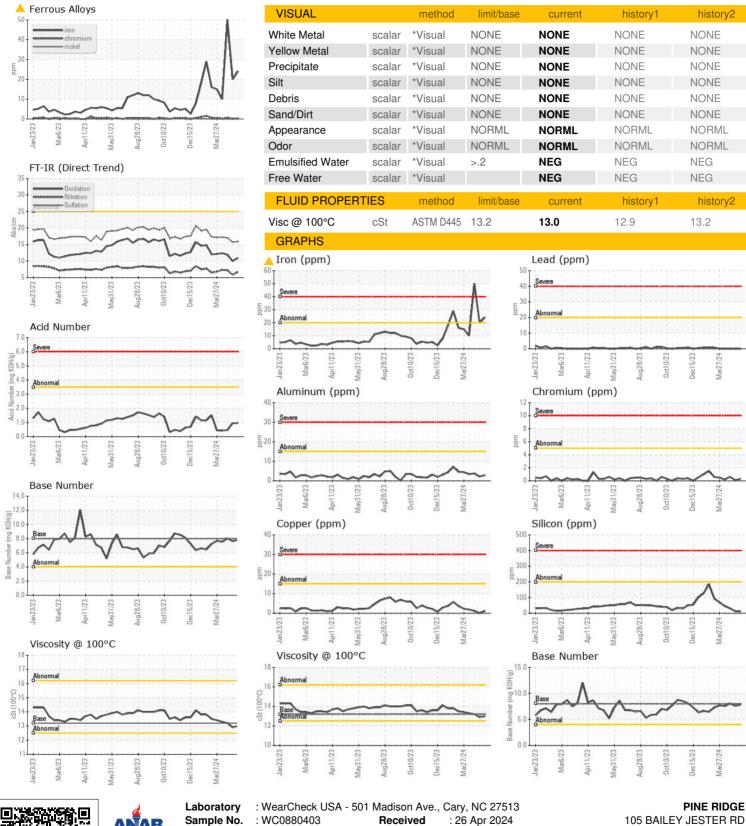
#### Fluid Condition

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.

8 SAE 40 ( GAL) 1/2023 Mar/2023 Aug/2023 Mar/2023 Oct/2023 Oct/2023 Oct/2023 Mar/2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0880403	WC0880435	WC0880429
Sample Date		Client Info		25 Apr 2024	19 Apr 2024	12 Apr 2024
lachine Age	hrs	Client Info		51274	51141	50992
Oil Age	hrs	Client Info		159	26	465
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	<u>4</u> 24	<u>^</u> 20	▲ 50
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	2	4
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>15	1	0	1
Γin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	8	4
Calcium	ppm	ASTM D5185m		2217	2296	2255
Phosphorus	ppm	ASTM D5185m		392	399	354
Zinc	ppm	ASTM D5185m		434	451	380
Sulfur	ppm	ASTM D5185m		2479	2526	2235
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	11	13	31
Sodium	ppm	ASTM D5185m	>20	2	1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>2	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.7	5.8	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.9	15.7	17.0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.9	10.0	11.9
Acid Number (AN)	mg KOH/g	ASTM D8045		0.951	0.946	0.46



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

: WC0880403 Lab Number : 06161688 Unique Number : 10997111 Test Package : MOB 2

Received : 26 Apr 2024 **Tested** : 30 Apr 2024

Diagnosed

: 30 Apr 2024 - Sean Felton

Contact: STEPHEN SAVAGE stephen.savage@cubedistrictenergy.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)

GRIFFIN, GA

US 30224

F: