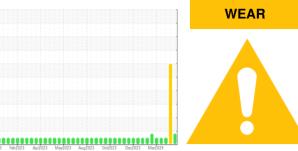


OIL ANALYSIS REPORT

Sample Rating Trend





JENBACHER GM03 (S/N 1144731) Component

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

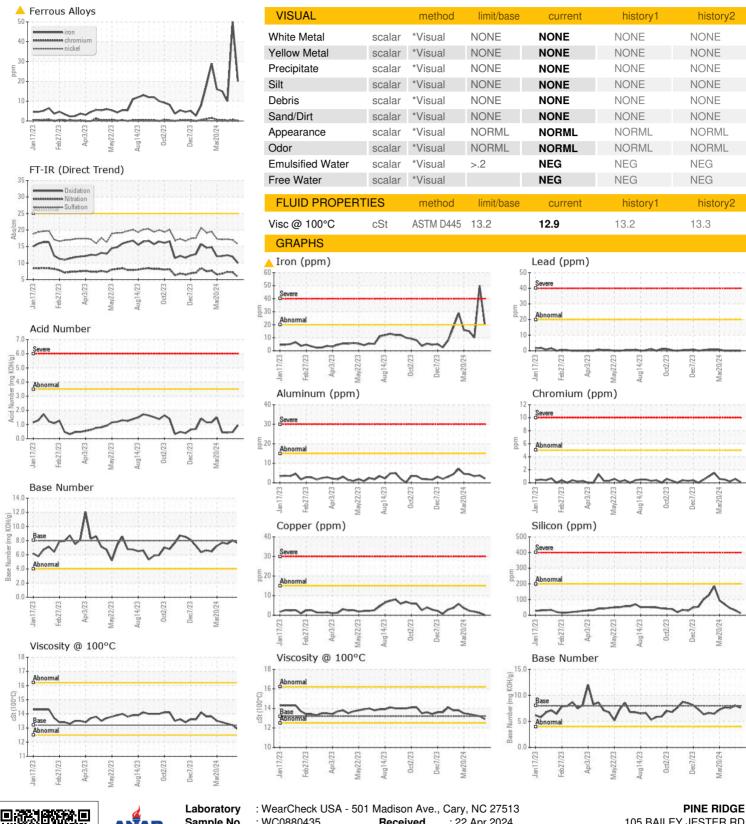
Fluid Condition

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)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0880435	WC0880429	WC0880426
Sample Date		Client Info		19 Apr 2024	12 Apr 2024	04 Apr 2024
Machine Age	hrs	Client Info		51141	50992	50871
Oil Age	hrs	Client Info		26	465	344
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL
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>^</u> 20	▲ 50	10
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	4	3
_ead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>15	0	1	2
Tin	ppm	ASTM D5185m	>5	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	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		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		8	4	9
Calcium	ppm	ASTM D5185m		2296	2255	2353
Phosphorus	ppm	ASTM D5185m		399	354	421
Zinc	ppm	ASTM D5185m		451	380	487
Sulfur	ppm	ASTM D5185m		2526	2235	2794
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	13	31	45
Sodium	ppm	ASTM D5185m	>20	1	2	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>2	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.8	7.2	7.3
		*ASTM D7415	>30	15.7	17.0	17.2
Sulfation	Abs/.1mm	AOTIVI DI TIO	700	. •		
		method	limit/base	current	history1	history2
Sulfation						history2
Sulfation FLUID DEGRADA	ATION	method	limit/base	current	history1	history2 12.4 0.42



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number

: 06157088 Unique Number : 10992511

: WC0880435

Received : 22 Apr 2024 Tested : 23 Apr 2024 : 25 Apr 2024 - Jonathan Hester

Diagnosed Test Package : MOB 2

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)

105 BAILEY JESTER RD GRIFFIN, GA

US 30224 Contact: STEPHEN SAVAGE

stephen.savage@cubedistrictenergy.com

T: F: