

## **OIL ANALYSIS REPORT**

Sample Rating Trend

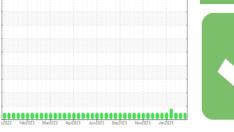
## NORMAL



Machine Id **JENBACHER GM03 (S/N 1144731)** 

Biogas Engine

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





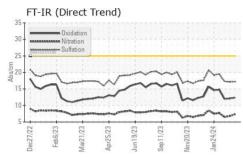
GNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation Resample at the next service interval to monitor.	Sample Number		Client Info		WC0880426	WC0880424	WC0880422
	Sample Date		Client Info		04 Apr 2024	27 Mar 2024	20 Mar 2024
	Machine Age	hrs	Client Info		50871	50700	50550
mponent wear rates are normal.	Oil Age	hrs	Client Info		344	173	23
amination	Oil Changed		Client Info		N/A	N/A	N/A
is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iuid Condition he BN result indicates that there is suitable ikalinity remaining in the oil. The AN level is cceptable for this fluid. The condition of the oil is cceptable for the time in service.	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
	Iron	ppm	ASTM D5185m	>20	10	15	16
	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	5
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		2	2	4
	Tin	ppm	ASTM D5185m		1	2	3
	Vanadium	ppm	ASTM D5185m	, 0	0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		<1	<1	<1
	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m		<1	<1	1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		9	9	8
	Calcium	ppm	ASTM D5185m		2353	2224	2410
	Phosphorus	ppm	ASTM D5185m		421	361	395
	Zinc	ppm	ASTM D5185m		487	440	490
	Sulfur	ppm	ASTM D5185m		2794	2555	2705
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>200	45	69	94
	Sodium	ppm	ASTM D5185m	>20	<1	2	0
	Potassium	ppm	ASTM D5185m	>20	0	0	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.1	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.8	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	17.1	17.3
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	12.1	12.0
	Oxidation Acid Number (AN)		*ASTM D7414 ASTM D8045	>25	12.4 0.42	12.1 0.441	12.0 1.506

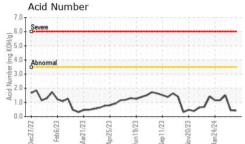
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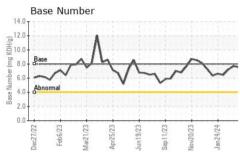
Contact/Location: STEPHEN SAVAGE - PINGRI

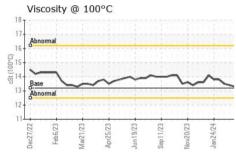


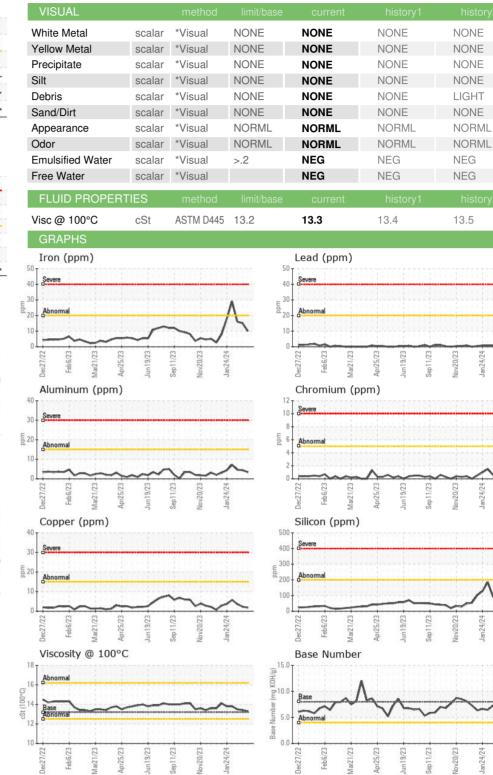
## **OIL ANALYSIS REPORT**











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PINE RIDGE Sample No. : WC0880426 Received : 05 Apr 2024 105 BAILEY JESTER RD Lab Number : 06140098 Tested : 08 Apr 2024 GRIFFIN, GA Unique Number : 10964906 Diagnosed : 08 Apr 2024 - Don Baldridge US 30224 Test Package : MOB 2 Contact: STEPHEN SAVAGE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.savage@cubedistrictenergy.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Contact/Location: STEPHEN SAVAGE - PINGRI

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