

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



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

Biogas Engine

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





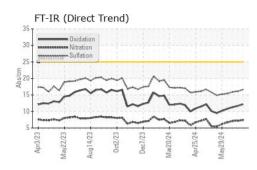
IAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	e current	history1	history2
commendation	Sample Number		Client Info		WC0944675	WC0914302	WC0914299
sample at the next service interval to monitor.	Sample Date		Client Info		24 Jun 2024	18 Jun 2024	10 Jun 2024
ar	Machine Age	hrs	Client Info		52412	52285	52124
component wear rates are normal.	Oil Age	hrs	Client Info		813	665	525
ntamination	Oil Changed		Client Info		N/A	N/A	N/A
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATIO	N	method	limit/base	current	history1	history2
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.	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	6	6	7
	Chromium	ppm	ASTM D5185m	>5	0	0	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	3	2	2
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	<1	1
	Tin	ppm	ASTM D5185m		1	1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m		<1	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		9	5	6
	Calcium	ppm	ASTM D5185m		2439	2314	2334
	Phosphorus	ppm	ASTM D5185m		436	382	398
	Zinc	ppm	ASTM D5185m		485	433	475
	Sulfur	ppm	ASTM D5185m		2983	2708	2863
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>200	22	16	16
	Sodium	ppm	ASTM D5185m	>20	3	1	0
	Potassium	ppm	ASTM D5185m	>20	2	0	2
			method	limit/base	current	history1	history2
	INFRA-RED		method	11111/0030		,	
	INFRA-RED Soot %	%	*ASTM D7844		0	0	0
		% Abs/cm		>2		· · · · ·	0 7.1
	Soot %		*ASTM D7844	>2 >20	0	0	
	Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>2 >20	0 7.4 16.6	0 7.2	7.1
	Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>2 >20 >30 limit/base	0 7.4 16.6	0 7.2 16.1	7.1 15.9
	Soot % Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm ATION Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>2 >20 >30 limit/base	0 7.4 16.6 current	0 7.2 16.1 history1	7.1 15.9 history2

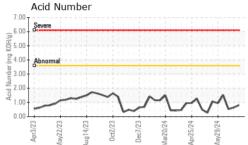
Fluid Condition

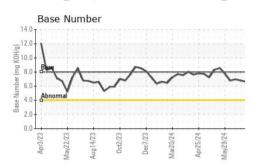
Contact/Location: STEPHEN SAVAGE - PINGRI

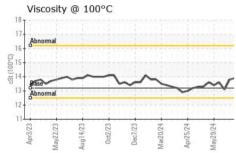


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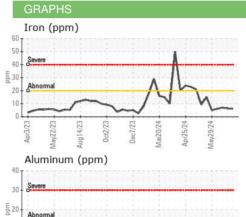


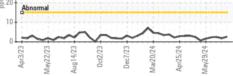


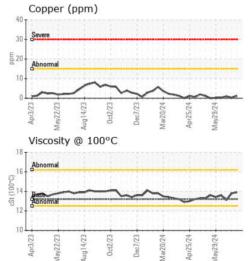


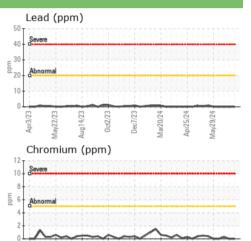


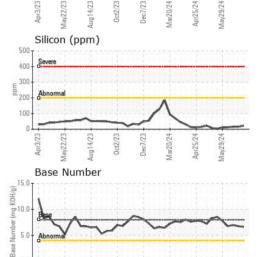
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.2	13.9	13.8	13.1











Dec7/23 Mar20/24 Apr25/24

0.0

Apr3/23

May22/23

Aug 14/23

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PINE RIDGE Sample No. : WC0944675 Received : 25 Jun 2024 105 BAILEY JESTER RD Lab Number : 06219903 Tested : 26 Jun 2024 GRIFFIN, GA Unique Number : 11098100 Diagnosed : 26 Jun 2024 - Sean Felton 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. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: PINGRI [WUSCAR] 06219903 (Generated: 06/28/2024 05:17:44) Rev: 1

Contact/Location: STEPHEN SAVAGE - PINGRI