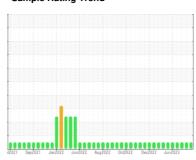


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



CHP2 (S/N 2209855)

Component Riogae Engine

Biogas Engine

MOBIL PEGASUS 1005 (220 GAL)

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Recommendation

Resample at the next service interval to monitor.

Wear

All 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 acceptable for the time in service.

		12021 Sep 20	21 Jan2022 Jun2022	Aug2022 Oct2022 Dcc2022	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0747961	WC0747974	WC0747980
Sample Date		Client Info		15 Aug 2023	02 Aug 2023	01 Aug 2023
Machine Age	hrs	Client Info		51008	50704	0
Oil Age	hrs	Client Info		5719	5415	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>45	12	11	10
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	5	4	5
Lead	ppm	ASTM D5185m	>5	0	<1	0
Copper	ppm	ASTM D5185m	>14	1	<1	1
Tin	ppm	ASTM D5185m	>13	0	0	0
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		90	86	101
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		9	9	11
Calcium	ppm	ASTM D5185m		1931	1847	2068
Phosphorus	ppm	ASTM D5185m		320	310	353
Zinc	ppm	ASTM D5185m		421	408	445
Sulfur	ppm	ASTM D5185m		2831	2350	3179
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	6	3	3
Sodium	ppm	ASTM D5185m		8	13	17
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		10.2	9.9	10.3
Sulfation	Abs/.1mm	*ASTM D7415		23.8	23.6	24.2
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		26.0	25.5	26.5
Acid Number (AN)	mg KOH/g	ASTM D8045		2.29	2.15	2.28
Dana Mussahas (DM)		AOTH POOCO	- 0	F 40	4.04	4.50

5.13

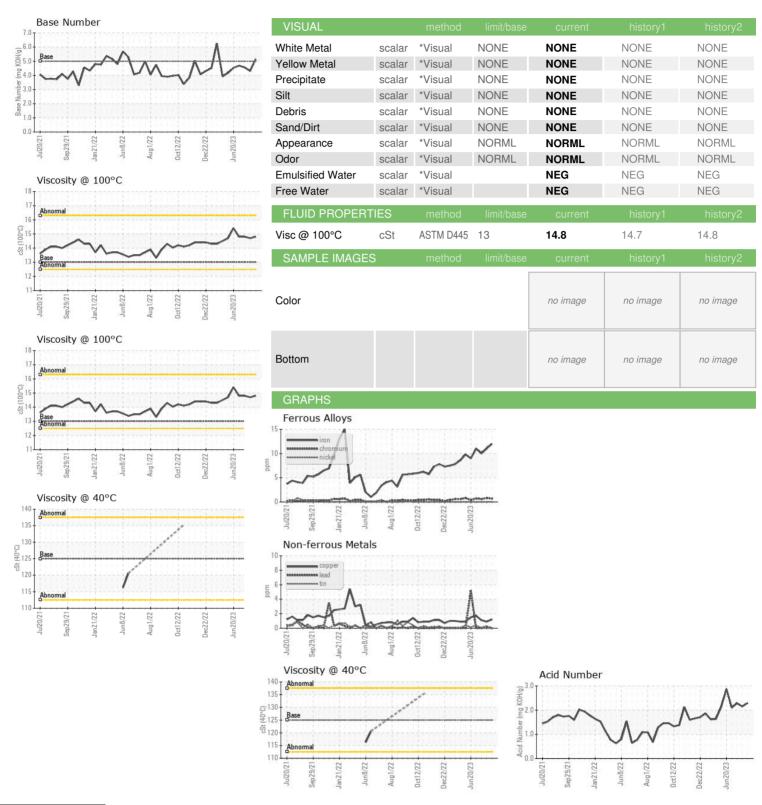
4.31

Base Number (BN) mg KOH/g ASTM D2896 5.0

4.56



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0747961 : 05934946

: 10620217

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 25 Aug 2023 : 28 Aug 2023 Diagnostician : Sean Felton

KB BIOENERGY INC 2677 RIVERVIEW RD

AKRON, OH US 44313

Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI) Contact: JASON SHICK

jasons@kbbioenergy.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

F: (330)864-7023