



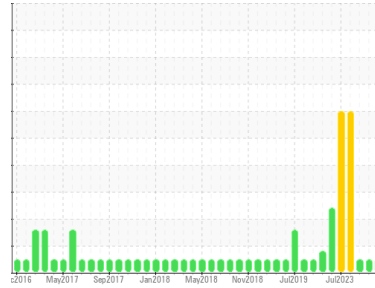
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
SECURITY HOUSTON TEXAS
 Machine Id
JENBACHER SC-U2
 Component
Biogas Engine
 Fluid
MOBIL PEGASUS 805 (250 GAL)



DIAGNOSIS

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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0427954	WC0427945	WC0427969
Sample Date	Client Info		04 Dec 2023	11 Oct 2023	13 Sep 2023
Machine Age	hrs	Client Info	64431	63235	62614
Oil Age	hrs	Client Info	4347	2054	2430
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	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
Iron	ppm	ASTM D5185m >20	5	7	12
Chromium	ppm	ASTM D5185m >5	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >15	2	1	<1
Lead	ppm	ASTM D5185m >20	<1	<1	0
Copper	ppm	ASTM D5185m >15	<1	<1	0
Tin	ppm	ASTM D5185m >5	<1	1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 80	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m	3	4	9
Calcium	ppm	ASTM D5185m 1020	1483	1450	1529
Phosphorus	ppm	ASTM D5185m 220	288	302	202
Zinc	ppm	ASTM D5185m 230	357	376	363
Sulfur	ppm	ASTM D5185m 1000	2945	3317	3239

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >150	74	73	73
Sodium	ppm	ASTM D5185m >20	0	0	1
Potassium	ppm	ASTM D5185m >20	1	1	0

INFRA-RED

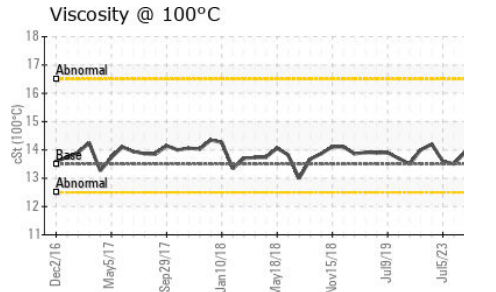
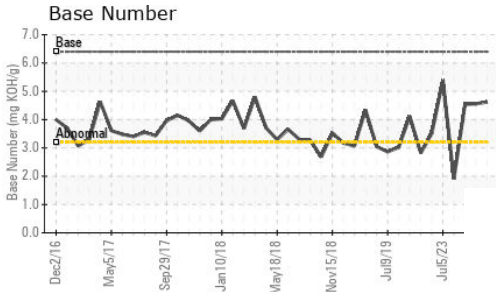
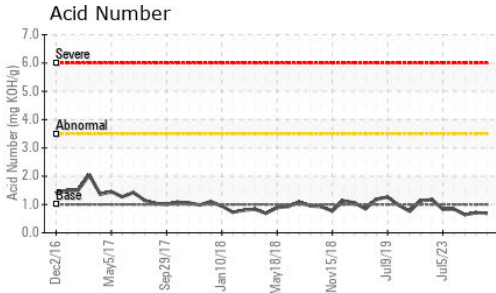
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.8	5.9	5.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.9	19.9	19.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.8	14.0	13.6
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.690	0.71	0.64
Base Number (BN)	mg KOH/g	ASTM D2896 6.4	4.62	4.56	4.54



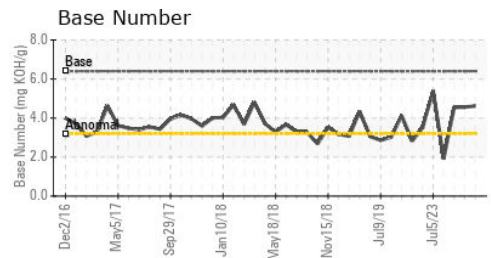
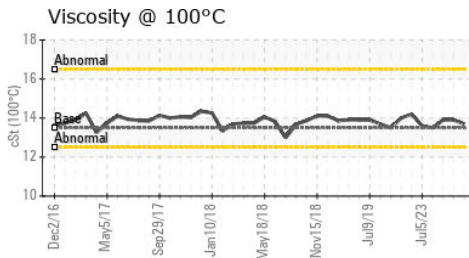
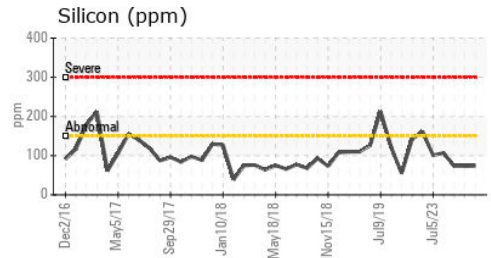
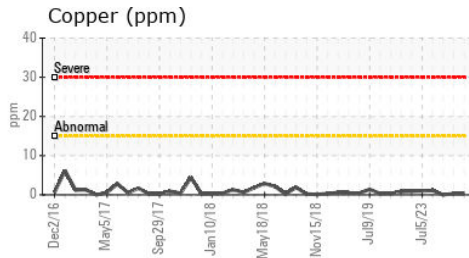
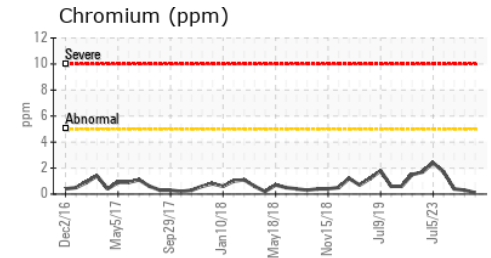
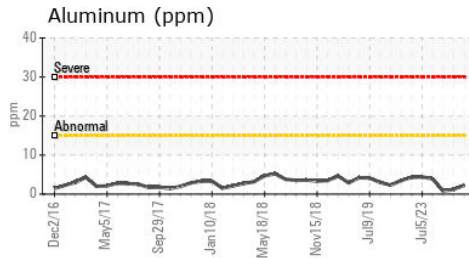
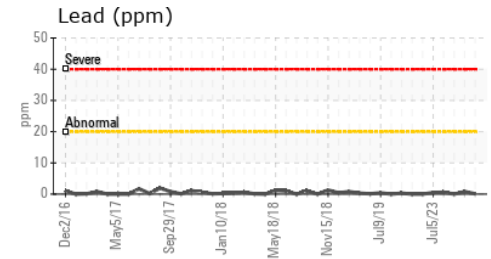
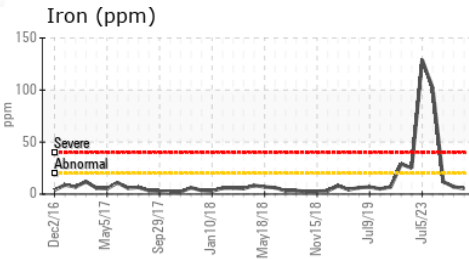
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.7	13.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0427954 **Received** : 06 Dec 2023
Lab Number : 06027203 **Diagnosed** : 08 Dec 2023
Unique Number : 10776994 **Diagnostician** : Angela Borella
Test Package : MOB 2

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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)