



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
HORRY
Machine Id
JENBACHER UNIT 1
Component
Biogas Engine
Fluid
76 TRITON 7010 (179 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0884975	WC0884968	WC0739855
Sample Date		Client Info		05 Jan 2024	26 Dec 2023	04 Dec 2023
Machine Age	hrs	Client Info		50665	50436	50118
Oil Age	hrs	Client Info		776	547	229
Filter Age	hrs	Client Info		776	547	229
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	5	2	<1
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>15	6	4	2
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>15	2	0	<1
Tin	ppm	ASTM D5185m	>5	2	1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

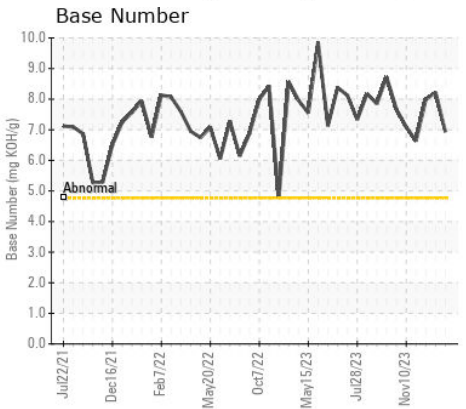
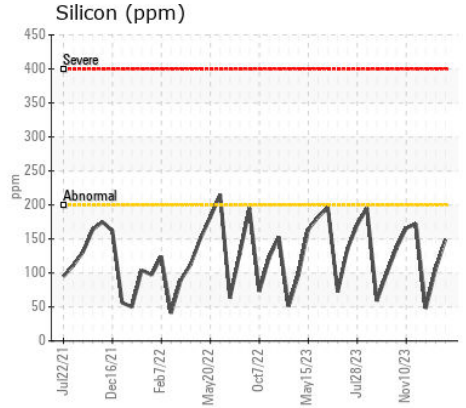
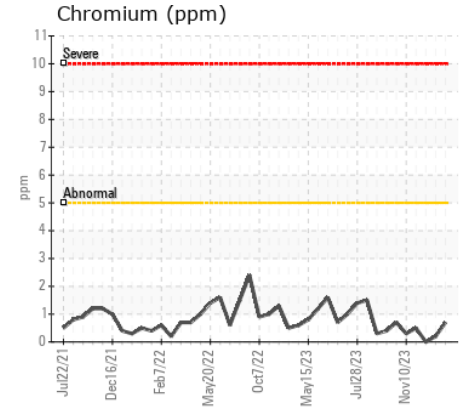
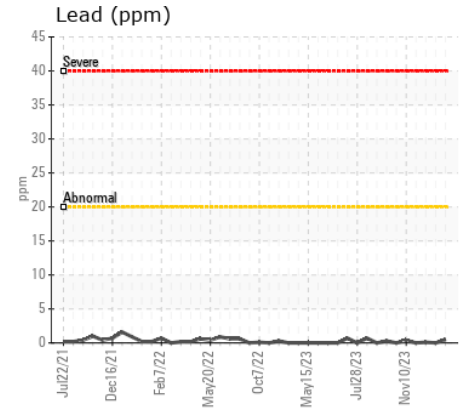
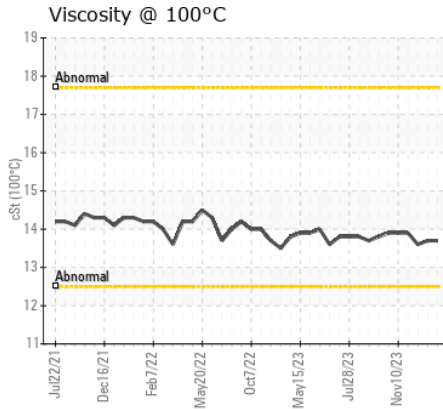
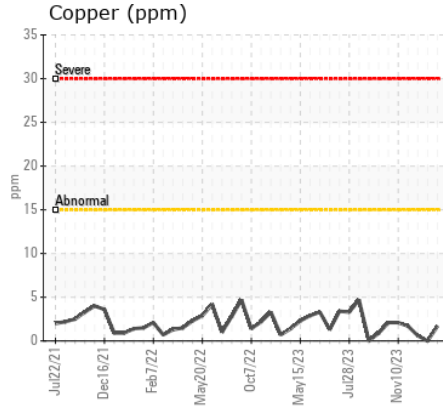
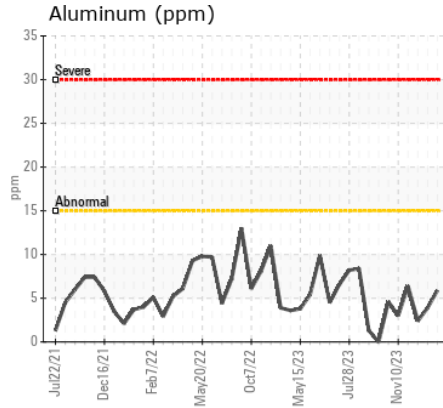
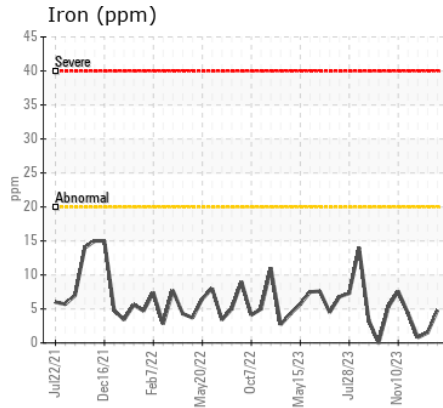
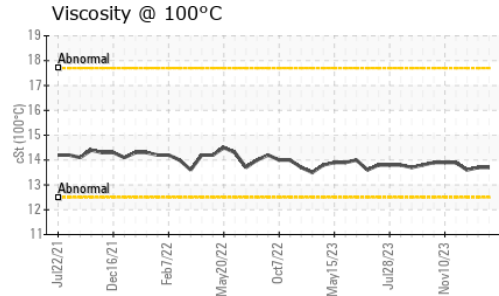
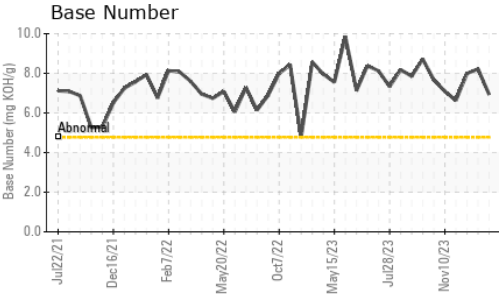
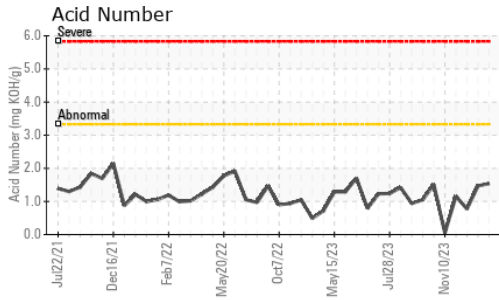
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>200	149	105	48
Potassium	ppm	ASTM D5185m	>20	0	0	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>2	0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	4.9	4.7	4.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	17.3	15.4
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

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.

Sodium	ppm	ASTM D5185m	>20	2	1	2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		11	10	10
Calcium	ppm	ASTM D5185m		2994	2889	2765
Phosphorus	ppm	ASTM D5185m		319	243	282
Zinc	ppm	ASTM D5185m		363	341	338
Sulfur	ppm	ASTM D5185m		5281	4631	4039
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.5	8.2	7.6
Acid Number (AN)	mg KOH/g	ASTM D8045		1.54	1.47	0.770
Base Number (BN)	mg KOH/g	ASTM D2896		6.93	8.22	7.99
Visc @ 100°C	cSt	ASTM D445		13.7	13.7	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0884975 **Received** : 08 Jan 2024
Lab Number : 06054081 **Diagnosed** : 09 Jan 2024
Unique Number : 10820030 **Diagnostician** : Sean Felton
Test Package : MOB 2

SANTEE COOPER - HORRY COUNTY LANDFILL
 100 ELM STREET
 CONWAY, SC
 US 29526
 Contact: DERRICK CHESTNUT
 drchestn@santeecooper.com

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)

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