



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



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

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0884970</b>	WC0884973	WC0884975
Sample Date		Client Info		<b>07 Feb 2024</b>	19 Jan 2024	05 Jan 2024
Machine Age	hrs	Client Info		<b>51079</b>	50887	50665
Oil Age	hrs	Client Info		<b>1190</b>	998	776
Filter Age	hrs	Client Info		<b>1190</b>	998	776
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>9</b>	8	5
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>6</b>	6	6
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>15	<b>3</b>	2	2
Tin	ppm	ASTM D5185m	>5	<b>3</b>	3	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

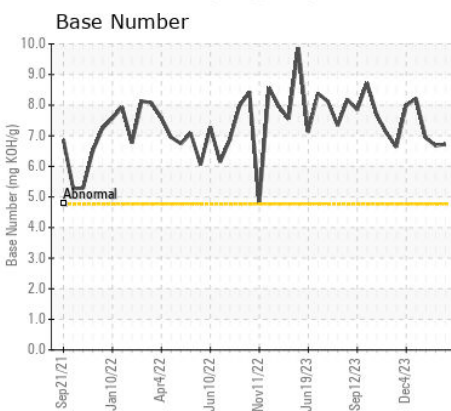
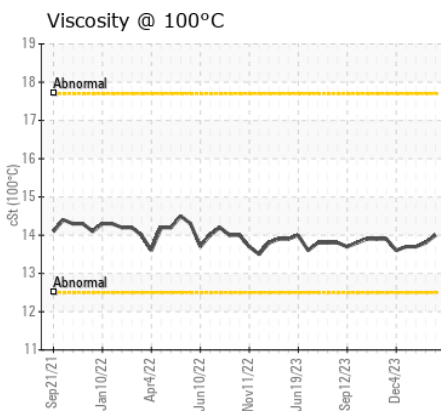
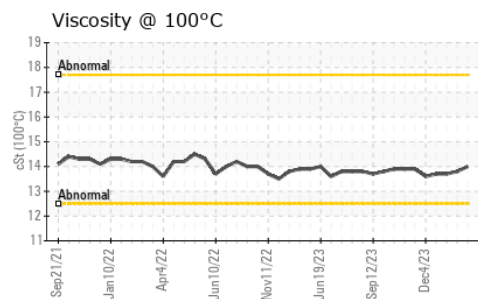
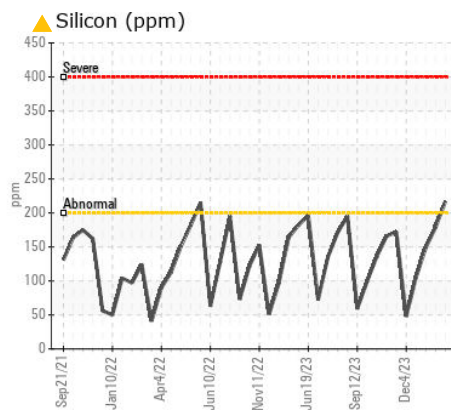
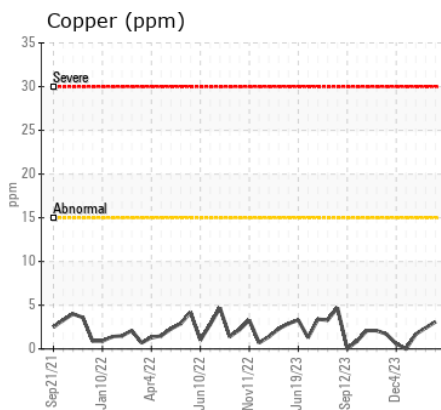
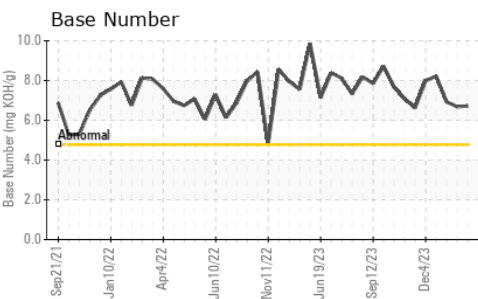
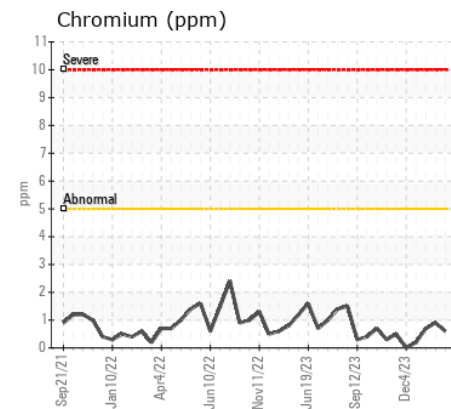
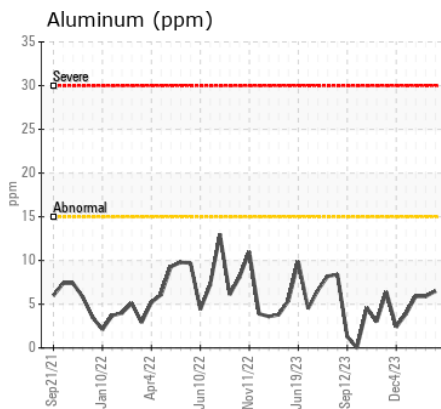
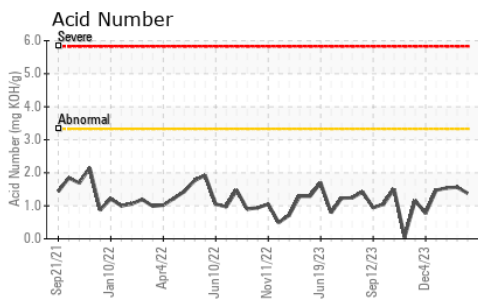
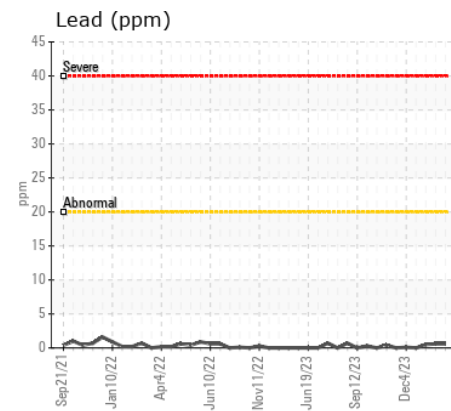
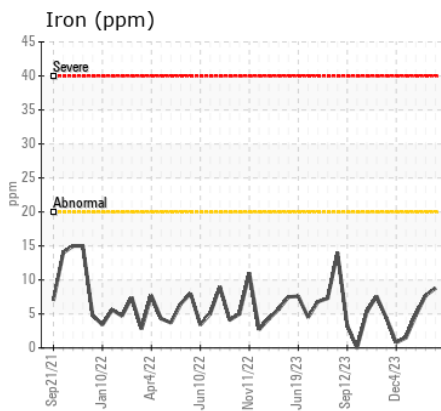
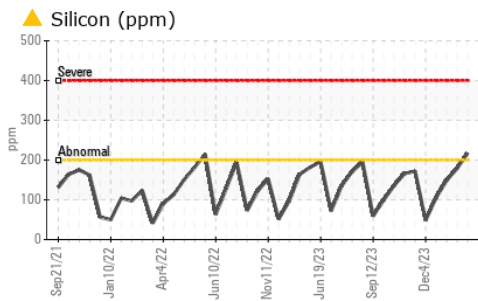
Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>200	<b>▲ 217</b>	179	149
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	0
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>2	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.0</b>	4.9	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.2</b>	19.7	18.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>10</b>	9	11
Calcium	ppm	ASTM D5185m		<b>3045</b>	3001	2994
Phosphorus	ppm	ASTM D5185m		<b>248</b>	325	319
Zinc	ppm	ASTM D5185m		<b>389</b>	352	363
Sulfur	ppm	ASTM D5185m		<b>4858</b>	6044	5281
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.9</b>	8.7	8.5
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.38</b>	1.56	1.54
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.72</b>	6.68	6.93
Visc @ 100°C	cSt	ASTM D445		<b>14.0</b>	13.8	13.7



Certificate L2367

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

Sample No. : WC0884970

Lab Number : 06083816

Unique Number : 10871261

Test Package : MOB 2

Received : 08 Feb 2024

Tested : 09 Feb 2024

Diagnosed : 11 Feb 2024 - Don Baldrige

SANTEE COOPER - HORRY COUNTY LANDFILL

100 ELM STREET

CONWAY, SC

US 29526

Contact: DERRICK CHESTNUT

drchestn@santeecooper.com

T:

F:

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)