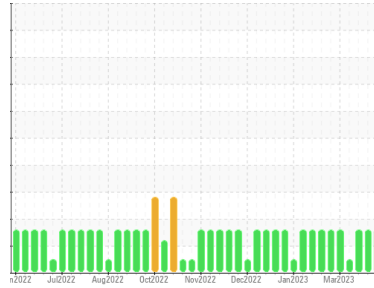




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**2 (S/N GZJ00315)**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA SENTRON CG 40 (145 GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Total oil added 92 gallons )

### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal.

### 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	<b>WC0699073</b>	WC0699066	WC0699021
Sample Date	Client Info	<b>03 Apr 2023</b>	27 Mar 2023	20 Mar 2023
Machine Age	hrs	<b>117638</b>	117470	117302
Oil Age	hrs	<b>596</b>	429	260
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>3</b>	3	1
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>3</b>	2	2
Lead	ppm ASTM D5185m >30	<b>0</b>	0	0
Copper	ppm ASTM D5185m >35	<b>1</b>	1	<1
Tin	ppm ASTM D5185m >4	<b>4</b>	3	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm ASTM D5185m 1	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185m 2	<b>1</b>	1	<1
Manganese	ppm ASTM D5185m 1	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 9	<b>20</b>	16	12
Calcium	ppm ASTM D5185m 2712	<b>3146</b>	2964	2641
Phosphorus	ppm ASTM D5185m 292	<b>308</b>	280	242
Zinc	ppm ASTM D5185m 342	<b>385</b>	353	309
Sulfur	ppm ASTM D5185m 2575	<b>4134</b>	3908	3508

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>▲ 287</b>	▲ 205	▲ 137
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Potassium	ppm ASTM D5185m >20	<b>0</b>	<1	0
Fuel	% ASTM D3524 >4.0	<b>0.3</b>	0.5	0.3

## INFRA-RED

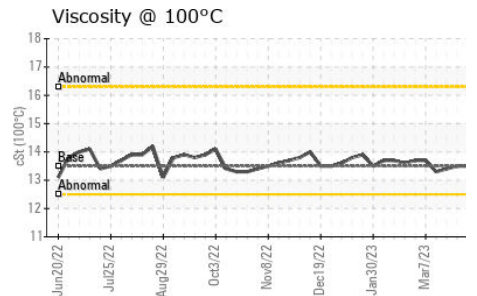
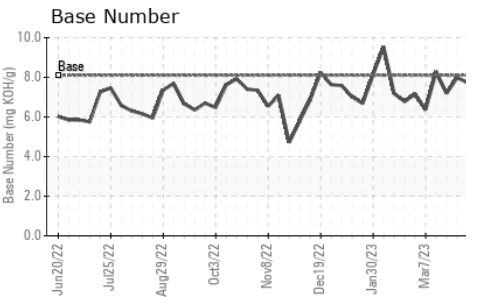
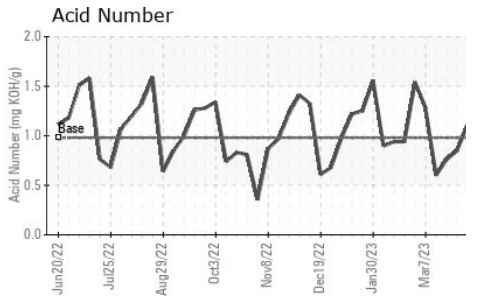
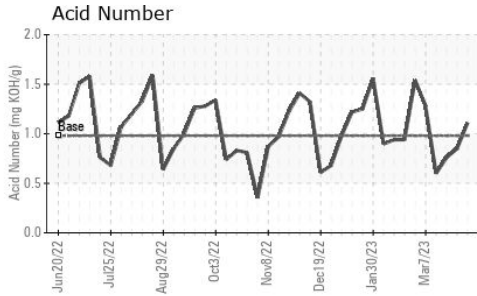
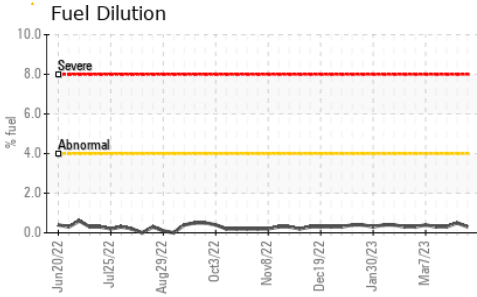
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>5.6</b>	5.2	4.9
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.5</b>	18.8	17.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>11.6</b>	10.3	9.3
Acid Number (AN)	mg KOH/g ASTM D8045 0.98	<b>1.11</b>	0.85	0.76
Base Number (BN)	mg KOH/g ASTM D2896 8.1	<b>7.72</b>	7.98	7.19



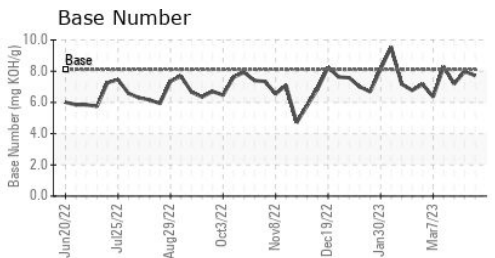
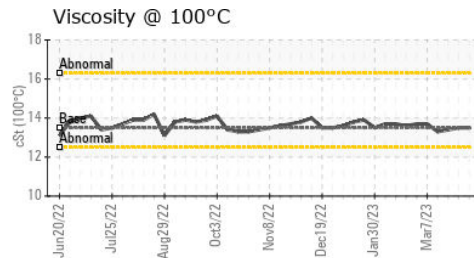
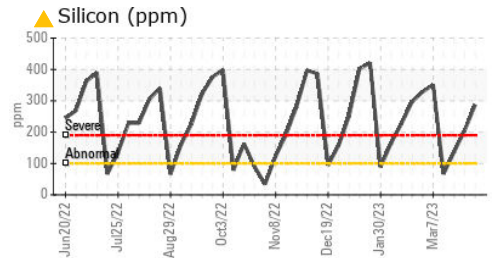
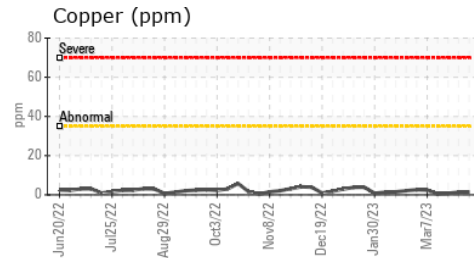
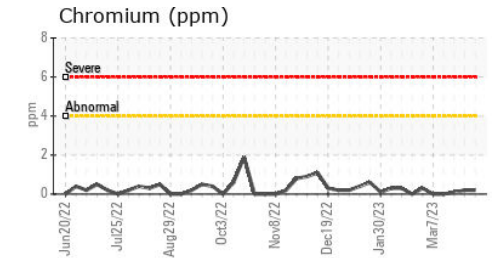
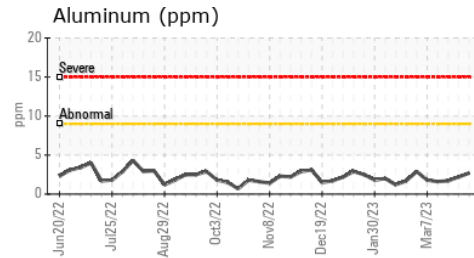
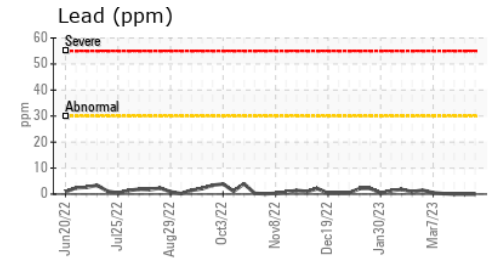
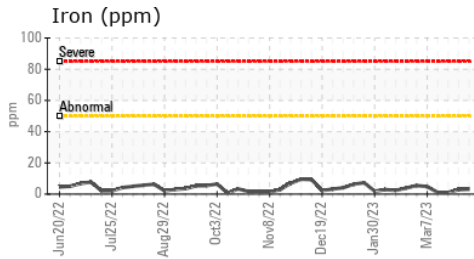
# OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.5	13.4

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0699073  
 Lab Number : 05813528  
 Unique Number : 10416320  
 Test Package : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

Received : 06 Apr 2023  
 Tested : 11 Apr 2023  
 Diagnosed : 11 Apr 2023 - Don Baldrige

**FINLEY BIOENERGY**  
 74265 Bombing Range Road  
 Boardman, OR  
 US 97818  
 Contact: Blain Middleton  
 bmiddleton@archaea.energy  
 T: (541)481-3232  
 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)