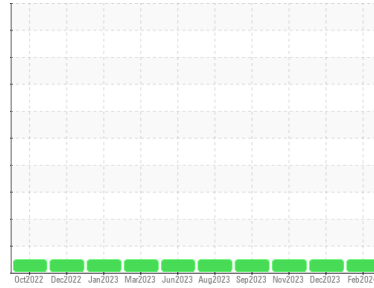


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**GUASCOR 340.105**

Component  
**Biogas Engine**

Fluid  
**PETRO CANADA RALUBE 40 CFS (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. 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	<b>PCA0092223</b>	PCA0092214	PCA0076105	
Sample Date	Client Info	<b>07 Feb 2024</b>	23 Dec 2023	06 Nov 2023	
Machine Age	hrs	Client Info	<b>118062</b>	116963	115867
Oil Age	hrs	Client Info	<b>1099</b>	1096	1144
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >45	<b>3</b>	2	5
Chromium	ppm ASTM D5185m >2	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m >5	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >10	<b>2</b>	2	2
Lead	ppm ASTM D5185m >5	<b>&lt;1</b>	<1	0
Copper	ppm ASTM D5185m >14	<b>0</b>	0	0
Tin	ppm ASTM D5185m >13	<b>&lt;1</b>	<1	0
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>	<1	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	0
Magnesium	ppm ASTM D5185m 25	<b>17</b>	17	20
Calcium	ppm ASTM D5185m 4300	<b>4407</b>	4540	4727
Phosphorus	ppm ASTM D5185m 1.6	<b>3</b>	4	4
Zinc	ppm ASTM D5185m 2	<b>0</b>	0	6
Sulfur	ppm ASTM D5185m 1500	<b>1679</b>	1674	1750

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >200	<b>3</b>	3	4
Sodium	ppm ASTM D5185m	<b>8</b>	19	6
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	0	<1
Fuel	% ASTM D3524 >4.0	<b>0.2</b>	0.0	0.2

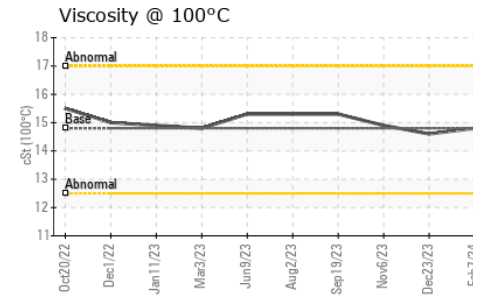
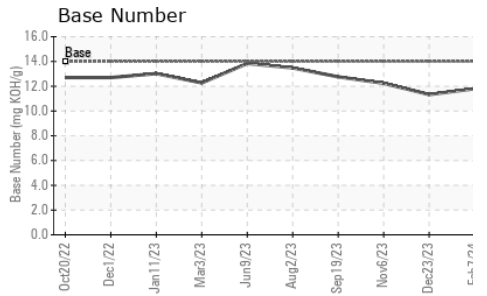
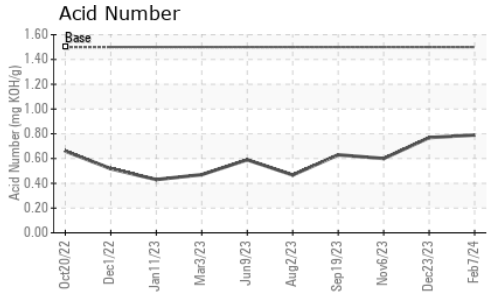
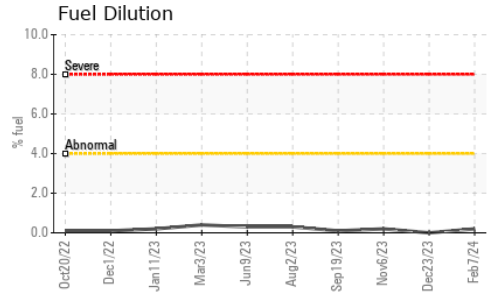
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm *ASTM D7624 >20	<b>12.3</b>	12.2	12.3
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>17.9</b>	17.0	16.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>9.5</b>	9.6	9.9
Acid Number (AN)	mg KOH/g ASTM D8045 1.50	<b>0.79</b>	0.769	0.60
Base Number (BN)	mg KOH/g ASTM D2896 14.0	<b>11.80</b>	11.33	12.24

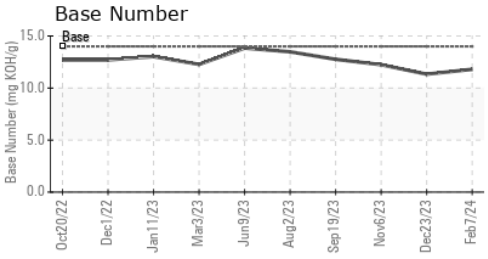
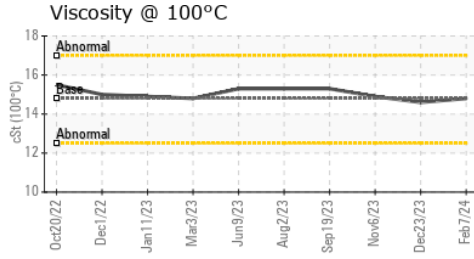
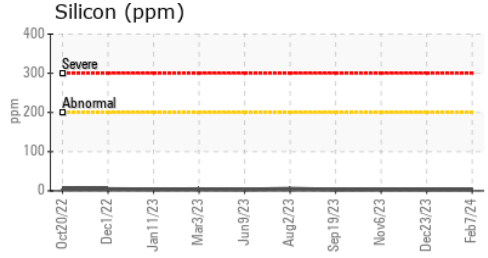
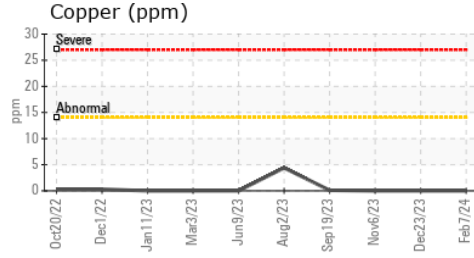
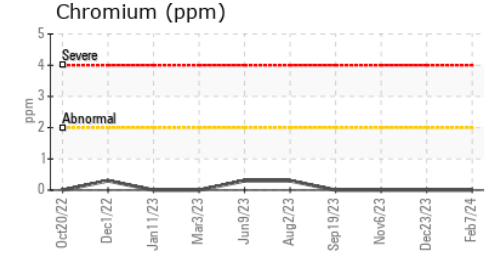
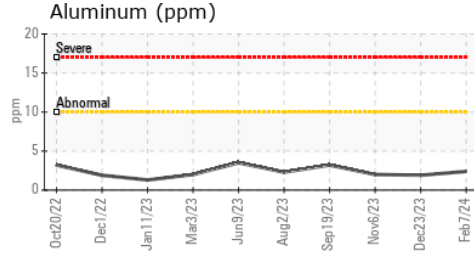
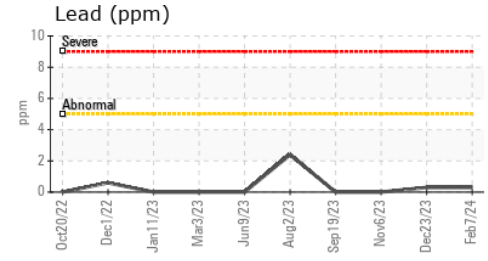
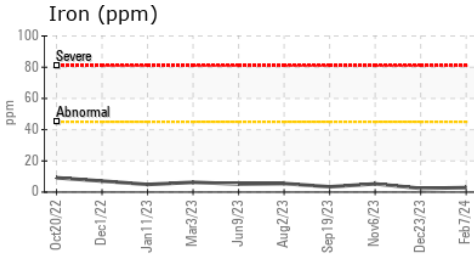
# OIL ANALYSIS REPORT



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	14.8	14.6	14.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0092223 **Received** : 15 Feb 2024  
**Lab Number** : 06090365 **Tested** : 19 Feb 2024  
**Unique Number** : 10883218 **Diagnosed** : 19 Feb 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**FARM POWER REXVILLE - FPR**  
 18866 BEAVER MARSH RD  
 MOUNT VERNON, WA  
 US 98273  
 Contact: JASON MITCHELL

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)

T:  
F: