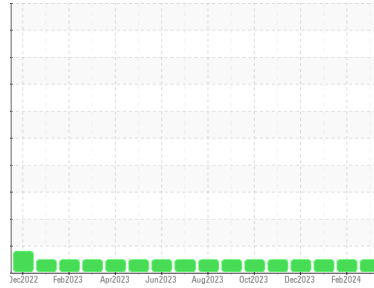


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**Watkins 1**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA SENTRON LD 3000 (--- 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		<b>PCA0112034</b>	PCA0117159	PCA0103426
Sample Date	Client Info		<b>04 Mar 2024</b>	01 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info	<b>101457</b>	100689	99972
Oil Age	hrs	Client Info	<b>6060</b>	5292	4575
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## 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>2</b>	4	5
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	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>2</b>	2	2
Lead	ppm	ASTM D5185m >30	<b>2</b>	2	<1
Copper	ppm	ASTM D5185m >35	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m >4	<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 5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 2	<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m 1	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 5	<b>15</b>	15	13
Calcium	ppm	ASTM D5185m 1220	<b>1474</b>	1477	1532
Phosphorus	ppm	ASTM D5185m 298	<b>289</b>	308	325
Zinc	ppm	ASTM D5185m 350	<b>379</b>	373	357
Sulfur	ppm	ASTM D5185m 1995	<b>2546</b>	2608	2774

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>4</b>	5	6
Sodium	ppm	ASTM D5185m >20	<b>2</b>	2	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	3
Fuel	%	ASTM D3524 >4.0	<b>0.1</b>	0.2	0.0

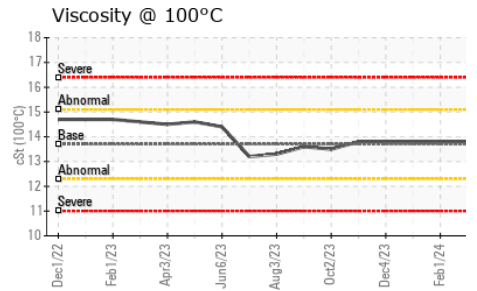
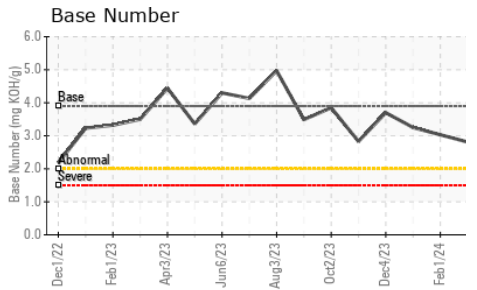
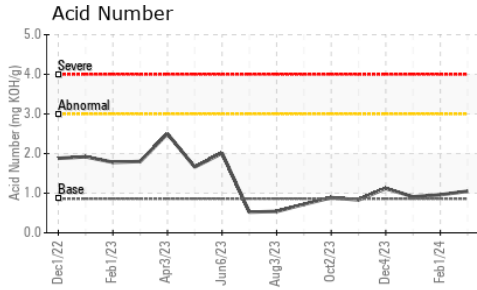
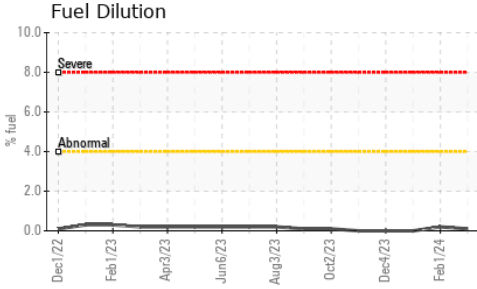
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >15	<b>5.2</b>	5.2	5.2
Sulfation	Abs/.1mm	*ASTM D7415 >25	<b>18.1</b>	18.0	17.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >20	<b>11.6</b>	11.3	11.2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.86	<b>1.05</b>	0.96	0.91
Base Number (BN)	mg KOH/g	ASTM D2896 3.9	<b>2.81</b>	3.03	3.25

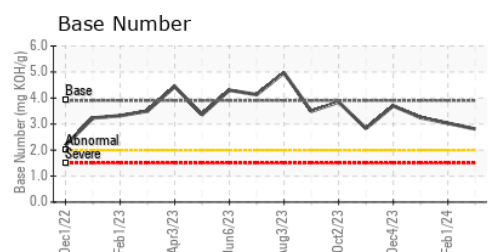
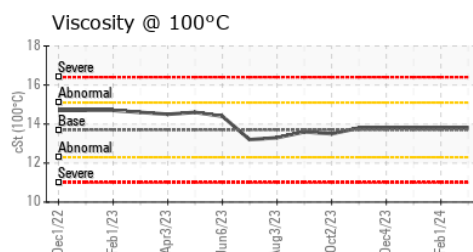
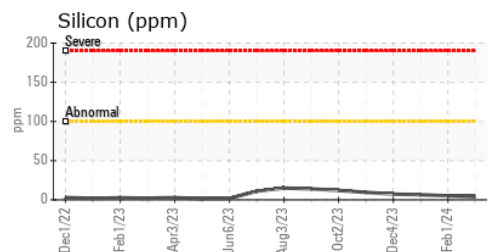
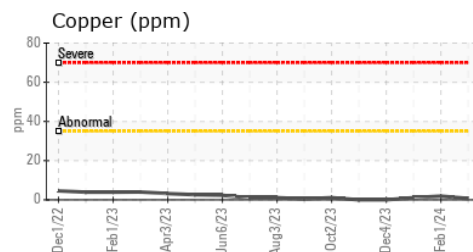
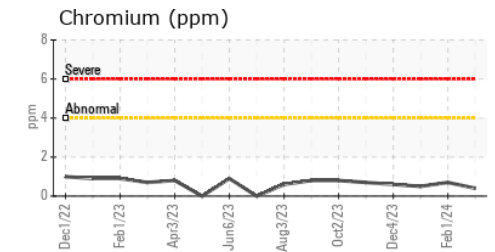
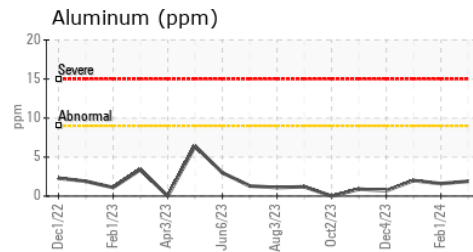
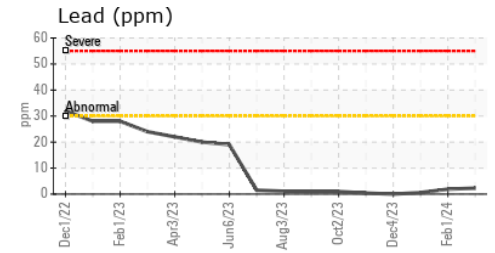
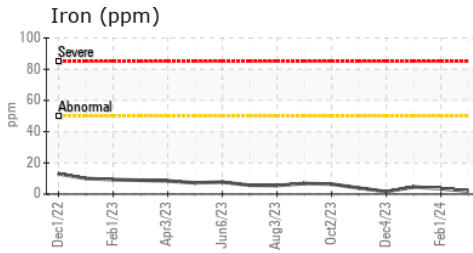
# OIL ANALYSIS REPORT



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	13.7	13.8	13.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112034 **Received** : 08 Mar 2024  
**Lab Number** : 06113703 **Tested** : 12 Mar 2024  
**Unique Number** : 10917200 **Diagnosed** : 12 Mar 2024 - Sean Felton  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**ENERVEST OPERATING - WATKINS**  
 3896 SUNSET HOLLOW ROAD  
 GRUNDY, VA  
 US 24614  
 Contact: Service Manager

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: