

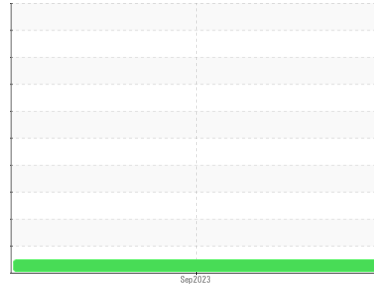
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Machine Id  
**44**

 Component  
**Natural Gas Engine**

 Fluid  
**PETRO CANADA SENTRON LD 3000 (--- GAL)**


## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>PCA0092161</b>	---	---
Sample Date	Client Info	<b>05 Sep 2023</b>	---	---
Machine Age	hrs Client Info	<b>99931</b>	---	---
Oil Age	hrs Client Info	<b>312</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 5	<b>0</b>	---	---
Barium ppm	ASTM D5185m 1	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185m 2	<b>0</b>	---	---
Manganese ppm	ASTM D5185m 1	<b>&lt;1</b>	---	---
Magnesium ppm	ASTM D5185m 5	<b>7</b>	---	---
Calcium ppm	ASTM D5185m 1220	<b>1370</b>	---	---
Phosphorus ppm	ASTM D5185m 298	<b>288</b>	---	---
Zinc ppm	ASTM D5185m 350	<b>346</b>	---	---
Sulfur ppm	ASTM D5185m 1995	<b>2965</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >+100	<b>2</b>	---	---
Sodium ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>0</b>	---	---
Fuel %	ASTM D3524 >4.0	<b>0.3</b>	---	---

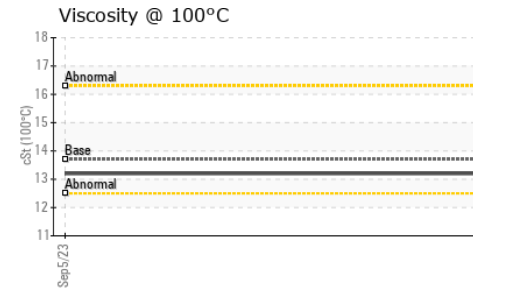
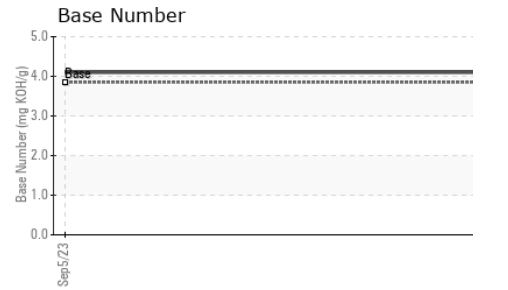
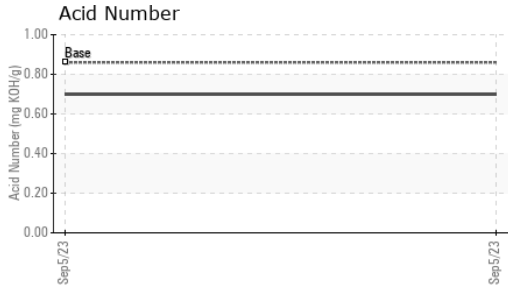
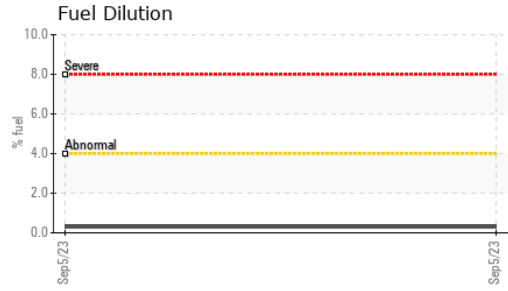
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	*ASTM D7844	<b>0</b>	---	---
Nitration Abs/cm	*ASTM D7624 >20	<b>4.6</b>	---	---
Sulfation Abs/.1mm	*ASTM D7415 >30	<b>14.0</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm	*ASTM D7414 >25	<b>8.2</b>	---	---
Acid Number (AN) mg KOH/g	ASTM D8045 0.86	<b>0.70</b>	---	---
Base Number (BN) mg KOH/g	ASTM D2896 3.85	<b>4.10</b>	---	---

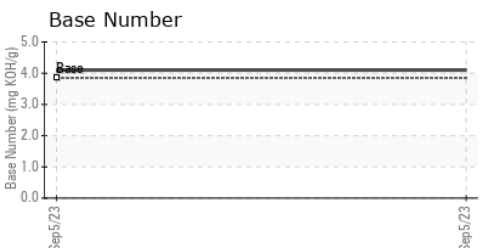
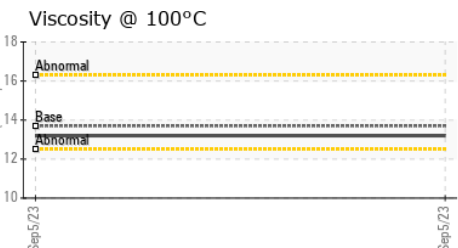
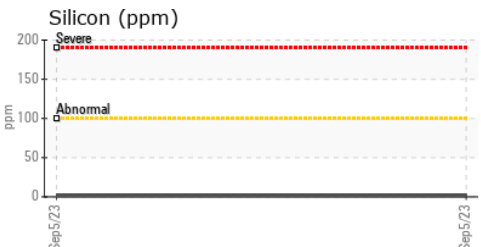
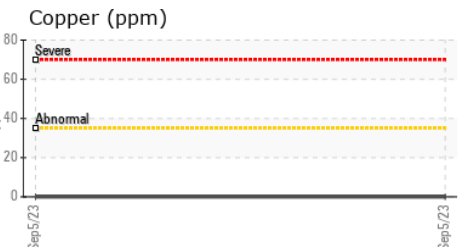
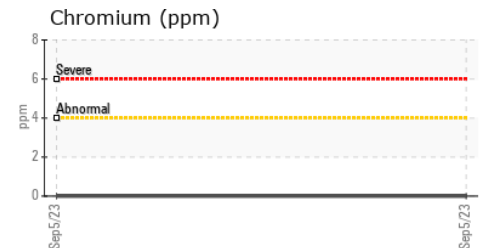
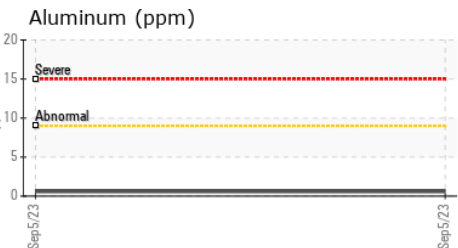
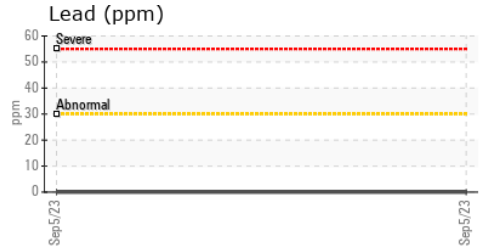
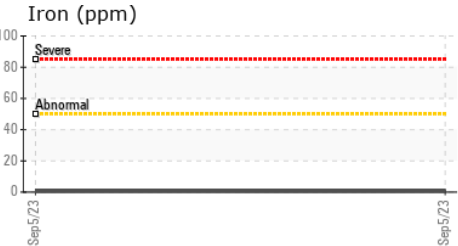
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.7	13.2	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0092161 **Received** : 14 Sep 2023  
**Lab Number** : 05952237 **Diagnosed** : 18 Sep 2023  
**Unique Number** : 10648196 **Diagnostician** : Wes Davis  
**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: