



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id

**41**

Component

**Natural Gas Engine**

Fluid

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0111990</b>	PCA0117176	PCA0117171
Sample Date		Client Info		<b>02 Apr 2024</b>	05 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info		<b>102419</b>	101731	100961
Oil Age	hrs	Client Info		<b>4915</b>	4227	3457
Filter Age	hrs	Client Info		<b>4915</b>	4227	3457
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>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>11</b>	0	1
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</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>	<1	<1
Copper	ppm	ASTM D5185m	>35	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

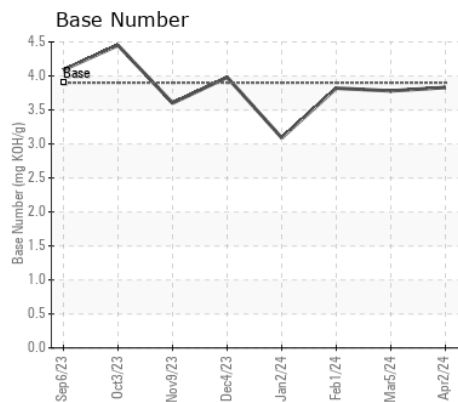
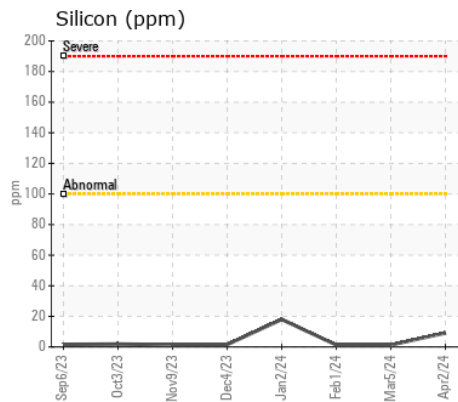
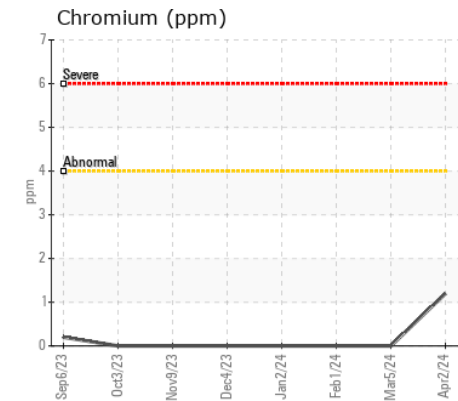
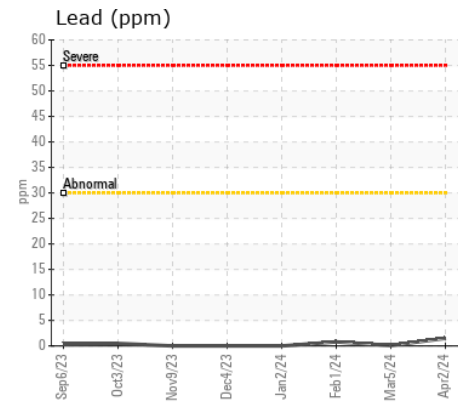
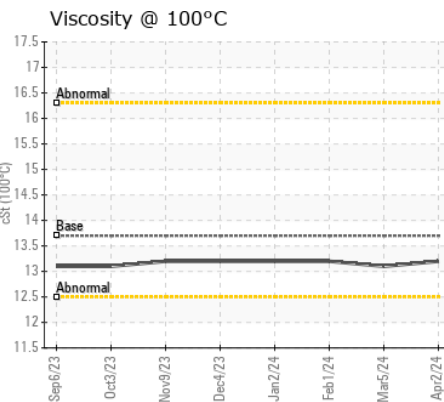
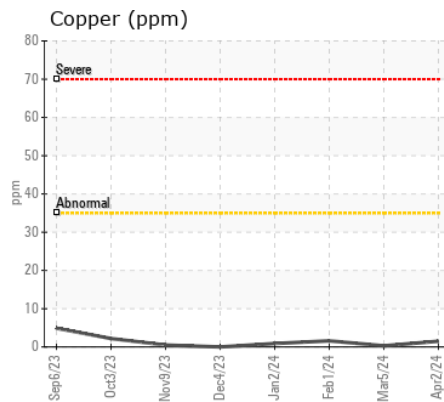
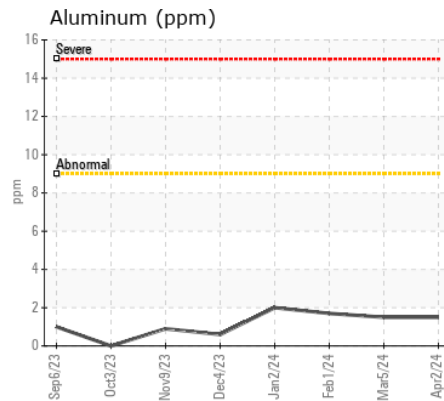
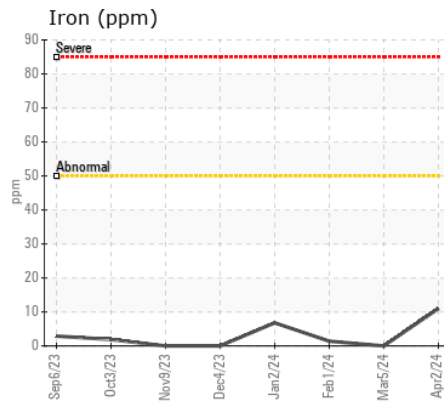
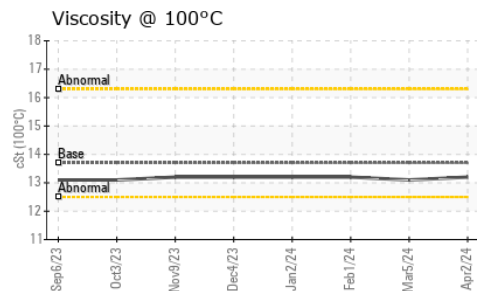
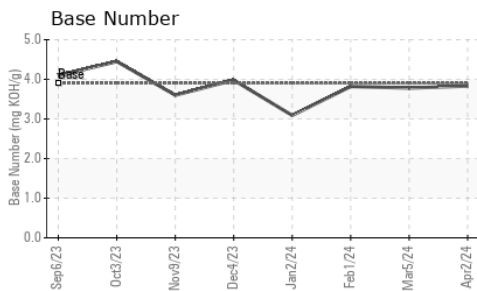
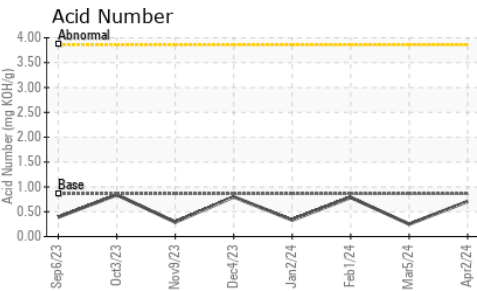
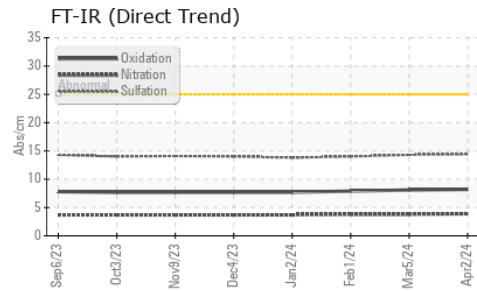
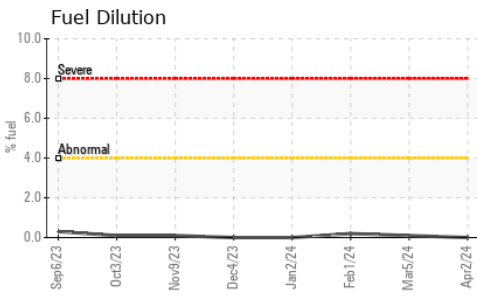
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>9</b>	1	1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Fuel	%	ASTM D3524	>4.0	<b>0.0</b>	0.1	0.2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>3.9</b>	3.8	3.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>14.4</b>	14.3	14.0
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	>0.1	<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 suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
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>3</b>	0	0
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	5	<b>20</b>	8	11
Calcium	ppm	ASTM D5185m	1220	<b>1305</b>	1231	1236
Phosphorus	ppm	ASTM D5185m	298	<b>307</b>	267	301
Zinc	ppm	ASTM D5185m	350	<b>355</b>	340	347
Sulfur	ppm	ASTM D5185m	1995	<b>2547</b>	2192	2335
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.2</b>	8.1	7.9
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	<b>0.707</b>	0.25	0.788
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	<b>3.83</b>	3.78	3.82
Visc @ 100°C	cSt	ASTM D445	13.7	<b>13.2</b>	13.1	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111990 **Received** : 11 Apr 2024  
**Lab Number** : 06146033 **Tested** : 16 Apr 2024  
**Unique Number** : 10976111 **Diagnosed** : 16 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**ENERVEST OPERATING - HAYS BOOSTER**  
 1705 BREAKS PARK ROAD  
 HAYS, VA  
 US 24256  
 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: