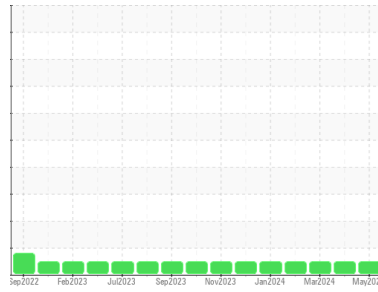


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

Banner 1

Component

Natural Gas Engine

Fluid

PETRO CANADA SENTRON LD 3000 (341 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		PCA0117192	PCA0117188	PCA0117142
Sample Date	Client Info		01 May 2024	02 Apr 2024	04 Mar 2024
Machine Age	hrs	Client Info	131053	130362	129692
Oil Age	hrs	Client Info	131053	130362	129692
Oil Changed	Client Info		Not Changed	Not Changd	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	7	6	5
Chromium	ppm	ASTM D5185m >4	<1	<1	0
Nickel	ppm	ASTM D5185m >2	<1	1	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	<1	1	1
Lead	ppm	ASTM D5185m >30	30	30	30
Copper	ppm	ASTM D5185m >35	3	3	1
Tin	ppm	ASTM D5185m >4	1	2	1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	0	0
Barium	ppm	ASTM D5185m 1	0	0	0
Molybdenum	ppm	ASTM D5185m 2	3	3	2
Manganese	ppm	ASTM D5185m 1	<1	<1	<1
Magnesium	ppm	ASTM D5185m 5	15	16	16
Calcium	ppm	ASTM D5185m 1220	1357	1402	1310
Phosphorus	ppm	ASTM D5185m 298	309	330	294
Zinc	ppm	ASTM D5185m 350	385	384	381
Sulfur	ppm	ASTM D5185m 1995	2603	2615	2206

CONTAMINANTS

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

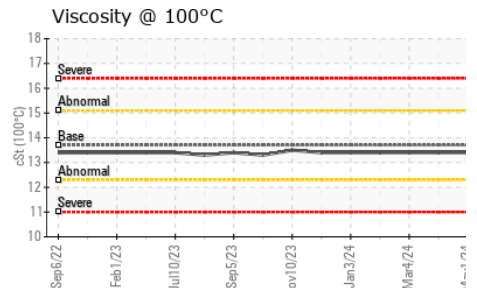
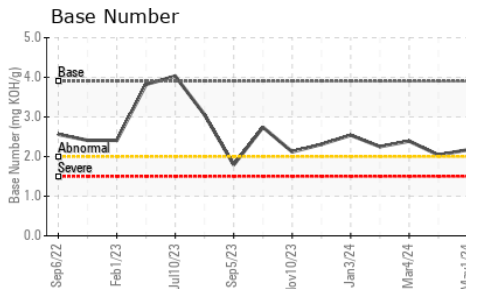
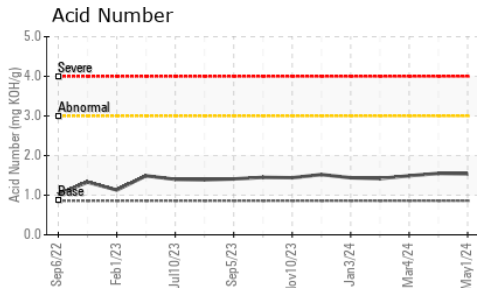
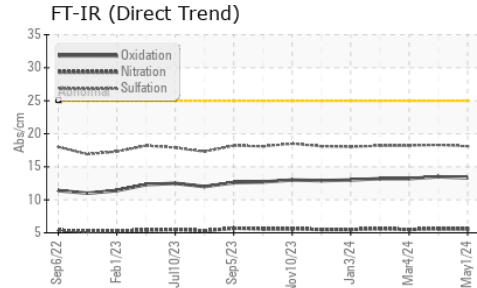
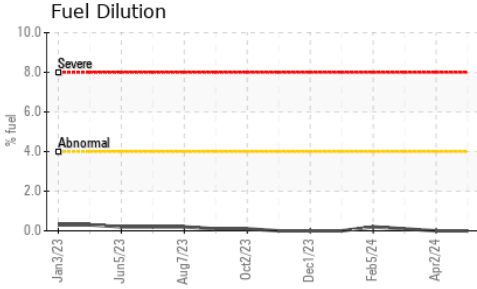
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624 >15	5.6	5.6	5.5
Sulfation	Abs/.1mm	*ASTM D7415 >25	18.1	18.3	18.2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >20	13.3	13.5	13.2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.86	1.54	1.55	1.49
Base Number (BN)	mg KOH/g	ASTM D2896 3.9	2.17	2.04	2.39

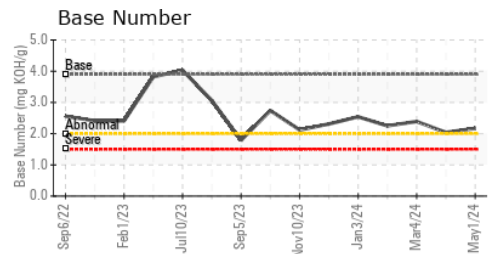
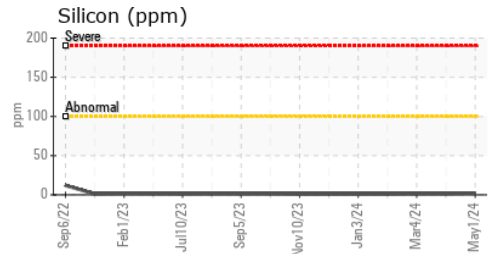
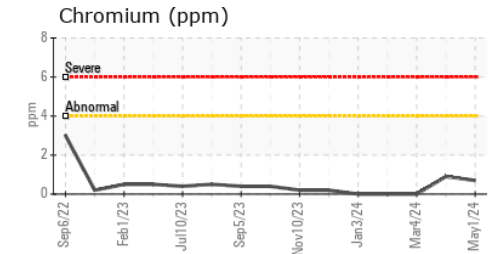
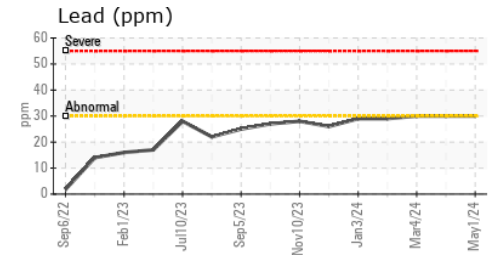
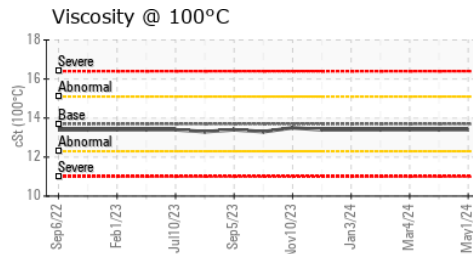
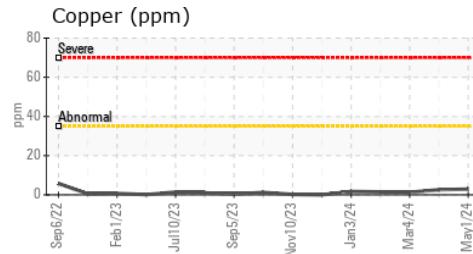
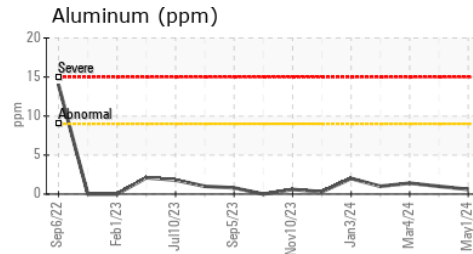
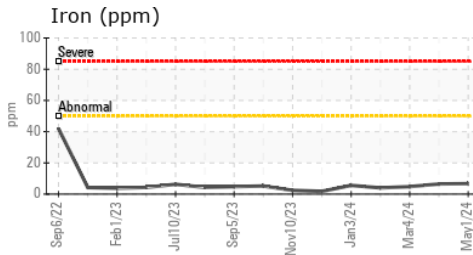
OIL ANALYSIS REPORT



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	13.4	13.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0117192

Lab Number : 06174041

Unique Number : 11020094

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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)

Received : 09 May 2024

Tested : 15 May 2024

Diagnosed : 15 May 2024 - Don Baldrige

ENERVEST OPERATING - BANNER

5210 CHIMNEY SWIFT ROAD

COEBURN, VA

US 24230

Contact: Service Manager

T:

F: