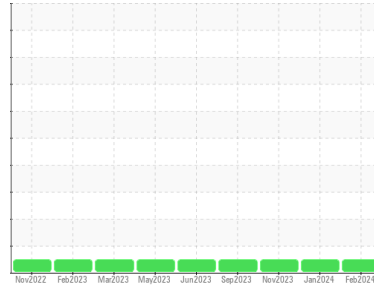


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
Hatchet
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.

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		PCA0117119	PCA0111980	PCA0111862
Sample Date	Client Info		02 Feb 2024	02 Jan 2024	13 Nov 2023
Machine Age	hrs	Client Info	157983	157238	154383
Oil Age	hrs	Client Info	6586	157238	155871
Oil Changed	Client Info		Not Chngd	N/A	N/A
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	6	11	4
Chromium	ppm	ASTM D5185m >4	0	<1	0
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	2	2	1
Lead	ppm	ASTM D5185m >30	3	2	<1
Copper	ppm	ASTM D5185m >35	1	2	0
Tin	ppm	ASTM D5185m >4	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	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	5	10	6
Manganese	ppm	ASTM D5185m 1	<1	0	<1
Magnesium	ppm	ASTM D5185m 5	11	13	10
Calcium	ppm	ASTM D5185m 1220	1469	1922	1425
Phosphorus	ppm	ASTM D5185m 298	346	453	316
Zinc	ppm	ASTM D5185m 350	409	516	385
Sulfur	ppm	ASTM D5185m 1995	2444	3135	2407

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	2	3	2
Sodium	ppm	ASTM D5185m >20	2	0	0
Potassium	ppm	ASTM D5185m >20	1	2	0
Fuel	%	ASTM D3524 >4.0	0.5	0.1	0.2

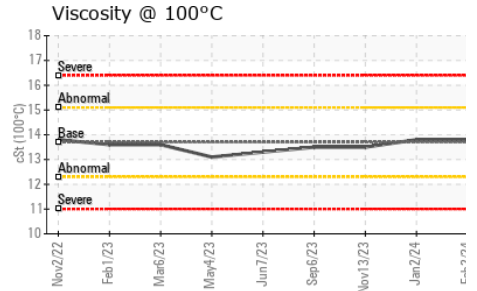
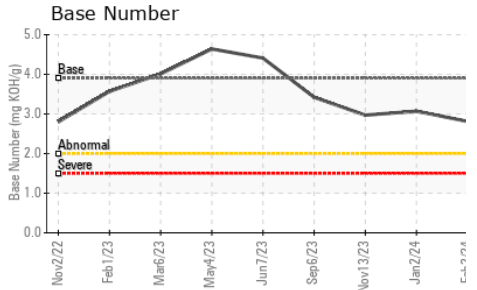
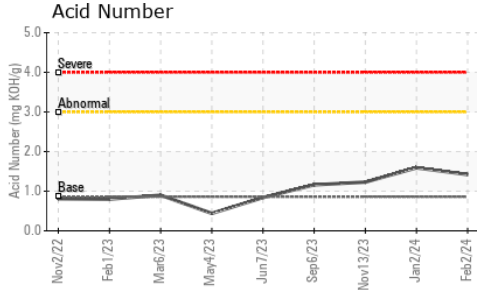
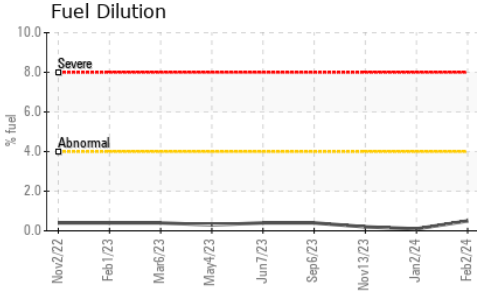
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624 >15	7.7	7.8	6.0
Sulfation	Abs/.1mm	*ASTM D7415 >25	18.9	18.8	16.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >20	13.7	14.4	11.3
Acid Number (AN)	mg KOH/g	ASTM D8045 0.86	1.42	1.59	1.23
Base Number (BN)	mg KOH/g	ASTM D2896 3.9	2.81	3.07	2.97

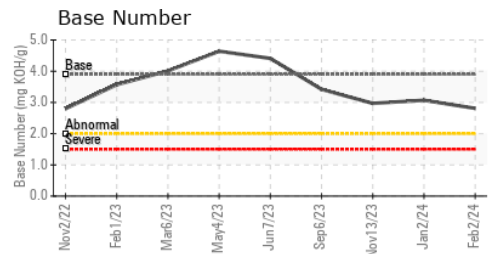
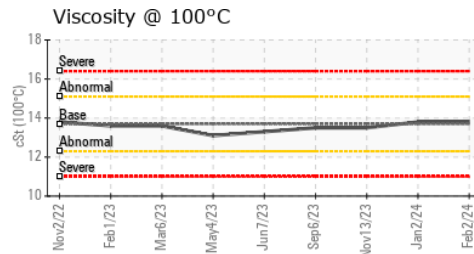
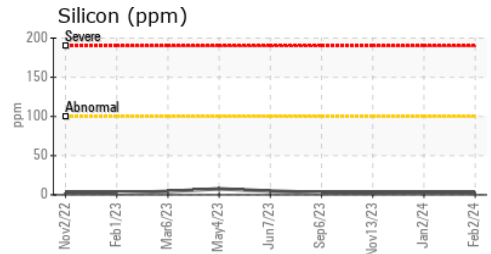
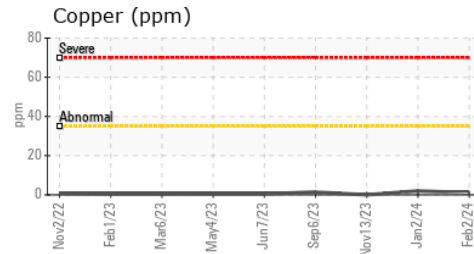
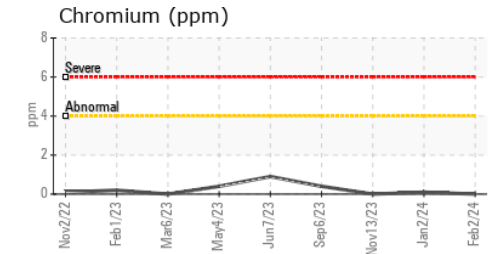
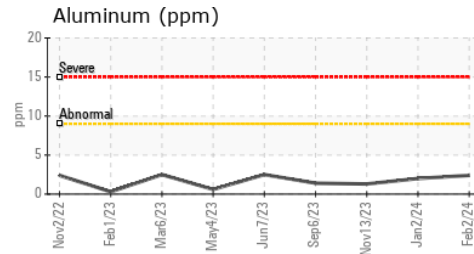
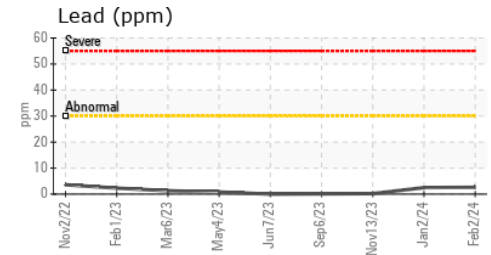
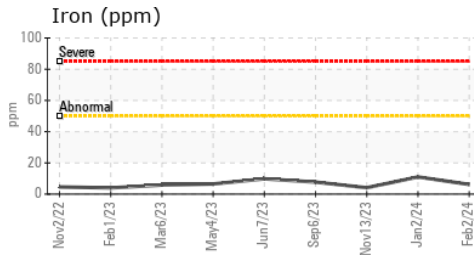
OIL ANALYSIS REPORT



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	13.5

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117119 **Received** : 16 Feb 2024
Lab Number : 06092449 **Tested** : 20 Feb 2024
Unique Number : 10885302 **Diagnosed** : 20 Feb 2024 - Sean Felton
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

ENERVEST OPERATING - HATCHET
 126 AILY ROAD
 DANTE, VA
 US 24237
 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)

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