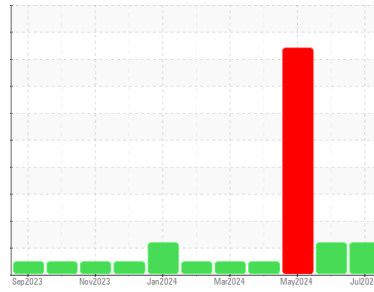


OIL ANALYSIS REPORT

Sample Rating Trend



COOL CHEMICALS



Machine Id

42

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

Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

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	PCA0117253	PCA0117278	PCA0111893
Sample Date	Client Info	09 Jul 2024	30 May 2024	02 May 2024
Machine Age	hrs	Client Info	98815	98190
Oil Age	hrs	Client Info	360	690
Oil Changed	Client Info	N/A	Changed	Not Changed
Sample Status		MARGINAL	ABNORMAL	SEVERE

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	4	4
Chromium	ppm ASTM D5185m >4	<1	<1	<1
Nickel	ppm ASTM D5185m >2	0	0	<1
Titanium	ppm ASTM D5185m	<1	0	<1
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >9	2	2	<1
Lead	ppm ASTM D5185m >30	0	3	3
Copper	ppm ASTM D5185m >35	1	4	2
Tin	ppm ASTM D5185m >4	0	1	<1
Vanadium	ppm ASTM D5185m	<1	0	<1
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 5	5	4	9
Barium	ppm ASTM D5185m 1	0	0	0
Molybdenum	ppm ASTM D5185m 2	15	17	52
Manganese	ppm ASTM D5185m 1	0	2	<1
Magnesium	ppm ASTM D5185m 5	8	9	7
Calcium	ppm ASTM D5185m 1220	1245	1367	1251
Phosphorus	ppm ASTM D5185m 298	291	326	375
Zinc	ppm ASTM D5185m 350	344	374	351
Sulfur	ppm ASTM D5185m 1995	2137	2868	2708

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	2	3	4
Sodium	ppm ASTM D5185m	23	25	▲ 93
Potassium	ppm ASTM D5185m >20	▲ 107	▲ 108	▲ 436
Fuel	% ASTM D3524 >4.0	0.0	0.3	0.0
Glycol	% *ASTM D2982	0.0	---	▲ 0.10

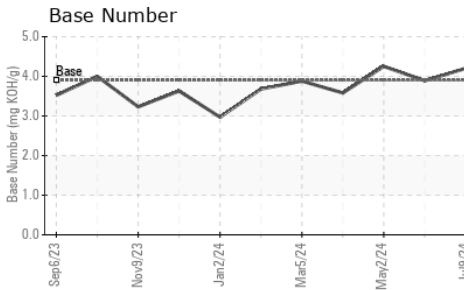
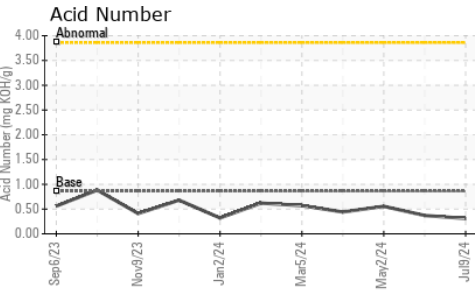
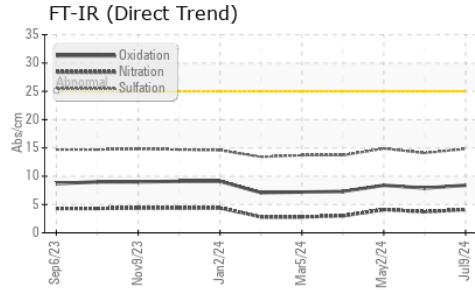
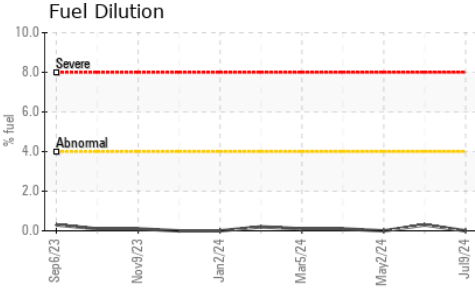
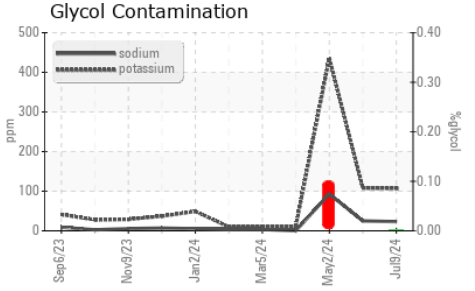
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0	0	0
Nitration	Abs/cm *ASTM D7624 >20	4.1	3.7	4.1
Sulfation	Abs/.1mm *ASTM D7415 >30	14.8	14.1	14.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	8.4	7.9	8.4
Acid Number (AN)	mg KOH/g ASTM D8045 0.86	0.31	0.37	0.555
Base Number (BN)	mg KOH/g ASTM D2896 3.9	4.20	3.89	4.25

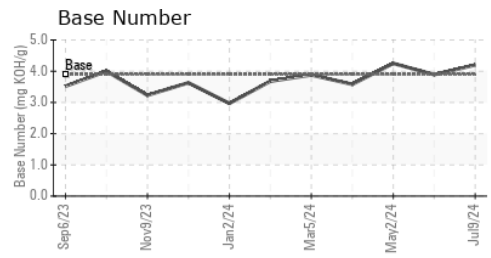
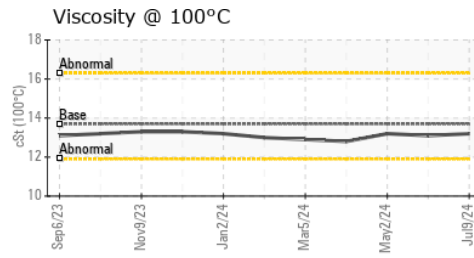
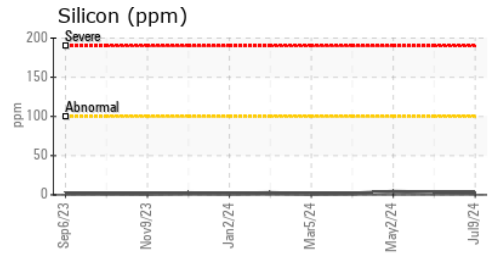
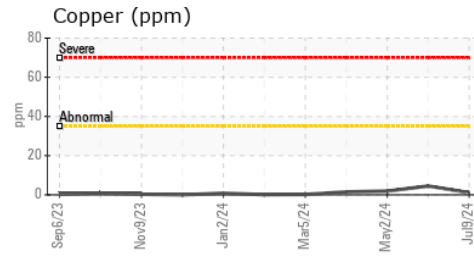
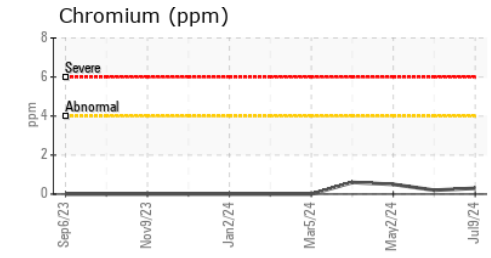
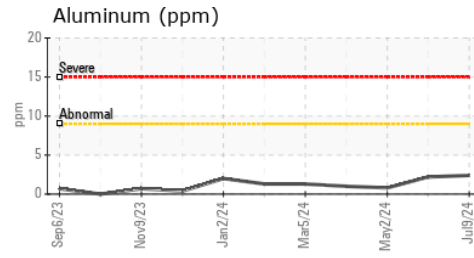
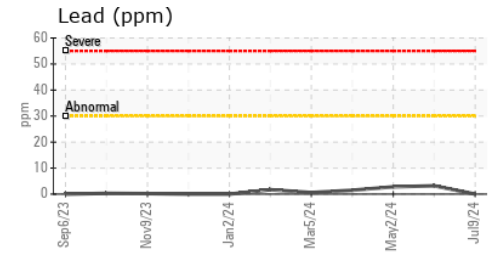
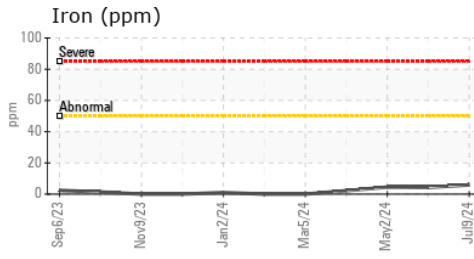
OIL ANALYSIS REPORT



PARAMETER	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	13.2	13.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117253
Lab Number : 06238560
Unique Number : 11127394
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, PercentFuel)

ENERVEST OPERATING - HAYSI BOOSTER
 1705 BREAKS PARK ROAD
 HAYSI, 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)

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