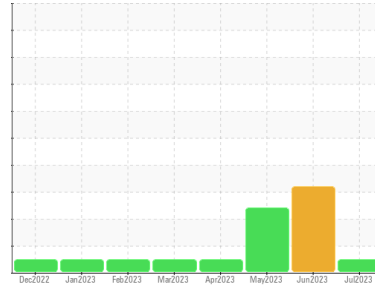


Machine Id
Poplar Gap B

Component
Natural Gas Engine

Fluid
PETRO CANADA SENTRON LD 3000 (--- 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			PCA0091291	PCA0091290	PCA0091295
Sample Date	Client Info			10 Jul 2023	06 Jun 2023	01 May 2023
Machine Age	hrs	Client Info		81099	80296	79438
Oil Age	hrs	Client Info		332	5607	4749
Oil Changed	Client Info			Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	11	10
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>9	1	3	6
Lead	ppm	ASTM D5185m	>30	2	▲ 32	23
Copper	ppm	ASTM D5185m	>35	<1	5	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

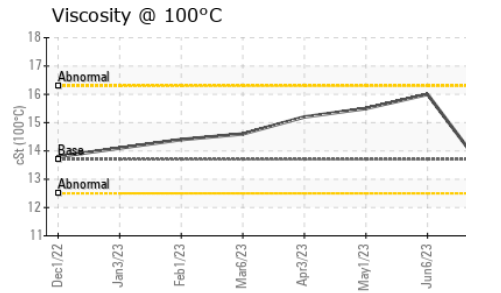
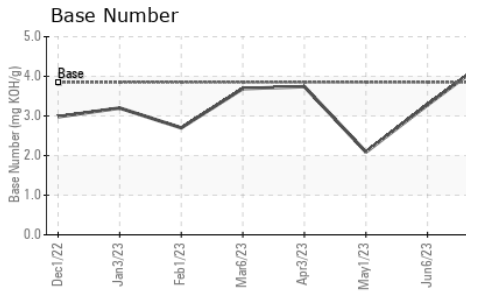
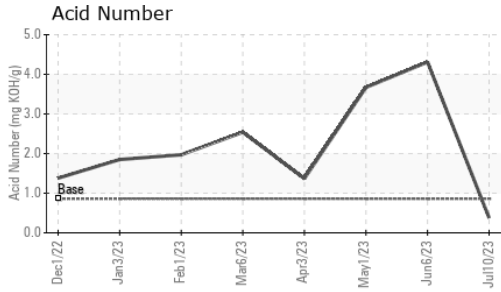
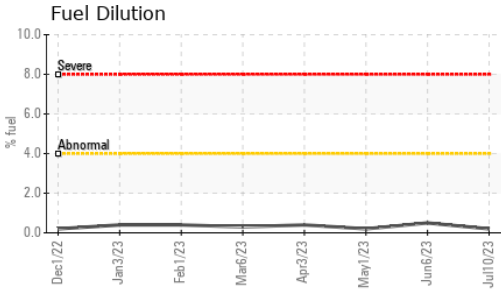
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	1	<1	0	0
Molybdenum	ppm	ASTM D5185m	2	4	4	6
Manganese	ppm	ASTM D5185m	1	0	<1	0
Magnesium	ppm	ASTM D5185m	5	24	18	39
Calcium	ppm	ASTM D5185m	1220	1417	1761	1815
Phosphorus	ppm	ASTM D5185m	298	291	342	366
Zinc	ppm	ASTM D5185m	350	370	457	430
Sulfur	ppm	ASTM D5185m	1995	2950	3459	3184

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

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	4.4	13.1	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.2	26.3	23.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.4	29.3	25.7
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.38	▲ 4.31	▲ 3.67
Base Number (BN)	mg KOH/g	ASTM D2896	3.85	4.44	▲ 3.28	▲ 2.09

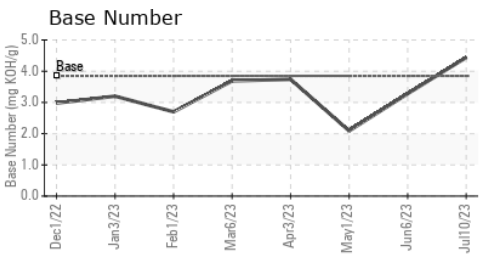
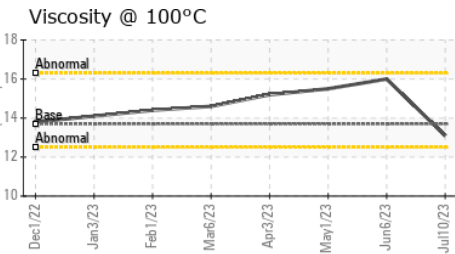
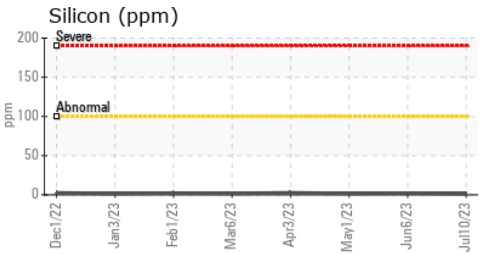
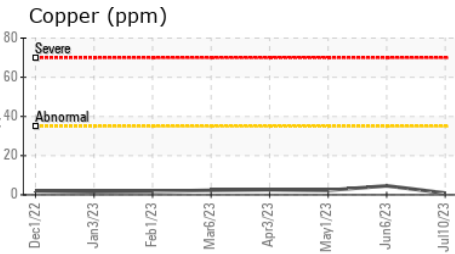
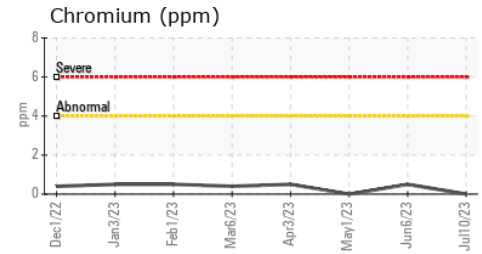
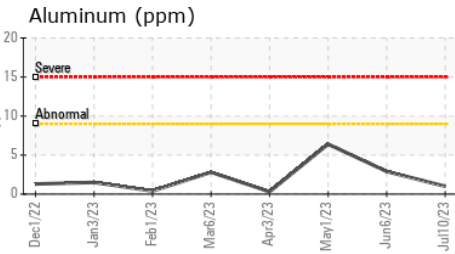
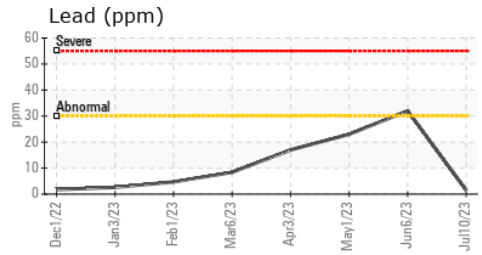
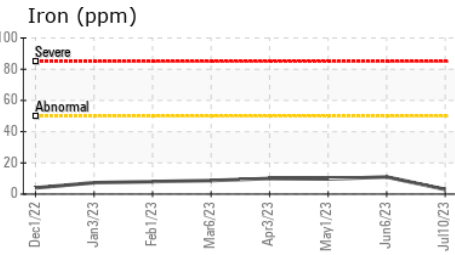
OIL ANALYSIS REPORT



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	16.0	15.5

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0091291 **Received** : 20 Jul 2023
Lab Number : 05903897 **Diagnosed** : 26 Jul 2023
Unique Number : 10565253 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

ENERVEST OPERATING - POPLAR GAP B
 1663 CRESCENT 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: