



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
48
 Component
Natural Gas Engine
 Fluid
PETRO CANADA SENTRON LD 3000 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0117152	PCA0117182	PCA0117162
Sample Date		Client Info		01 Apr 2024	04 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info		98414	97749	96998
Oil Age	hrs	Client Info		5407	4742	3991
Filter Age	hrs	Client Info		5407	4742	3991
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	9	3	7
Chromium	ppm	ASTM D5185m	>4	1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	2
Lead	ppm	ASTM D5185m	>30	3	<1	<1
Copper	ppm	ASTM D5185m	>35	2	<1	1
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

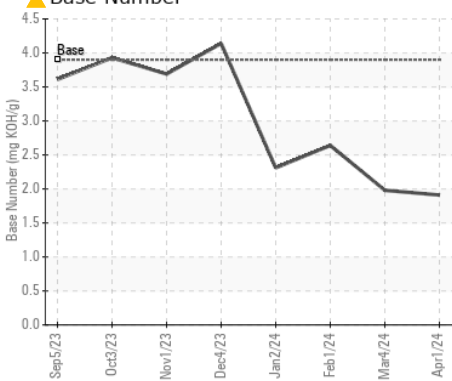
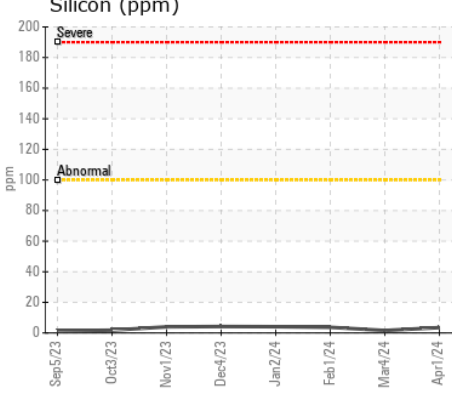
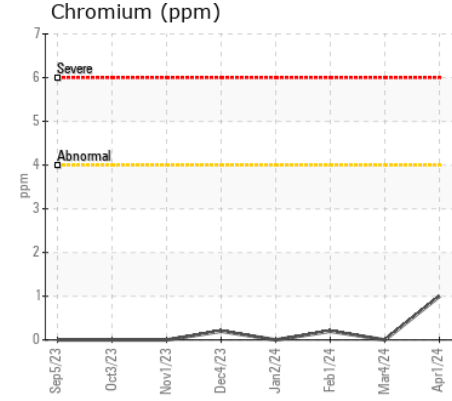
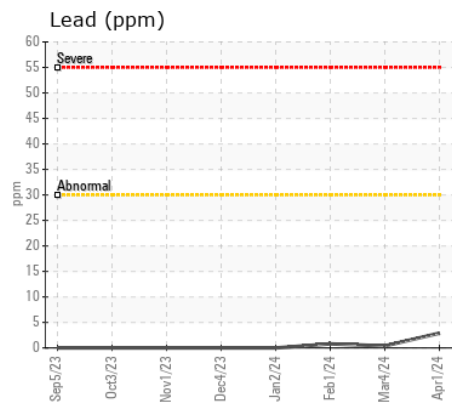
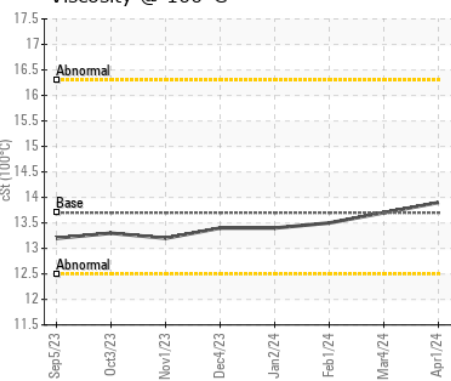
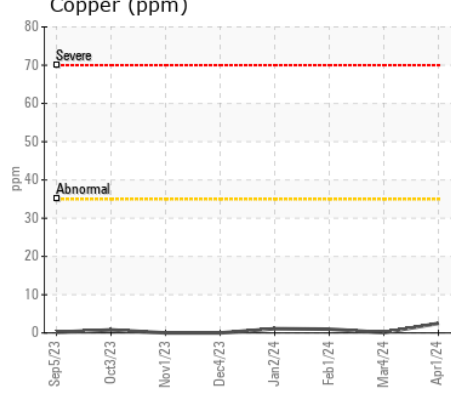
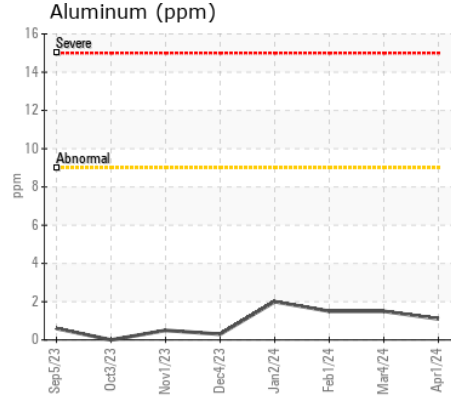
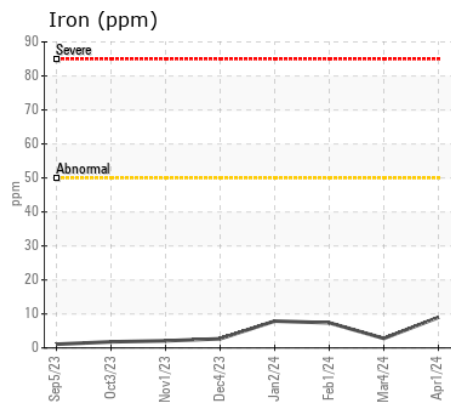
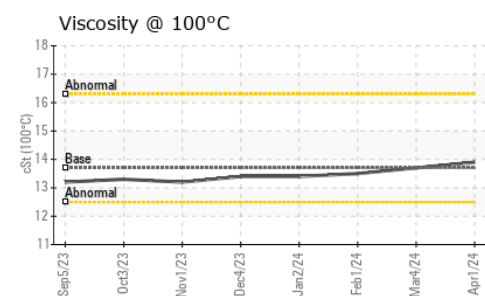
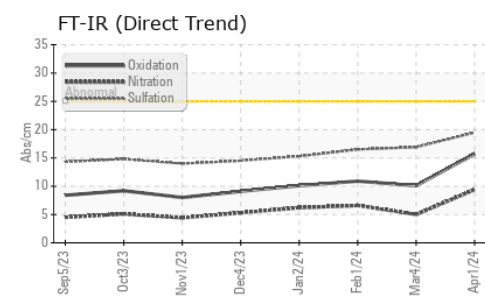
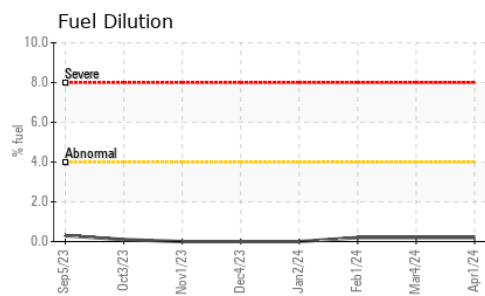
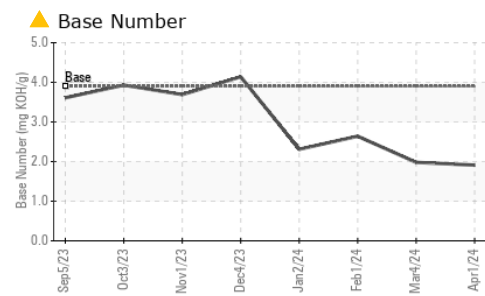
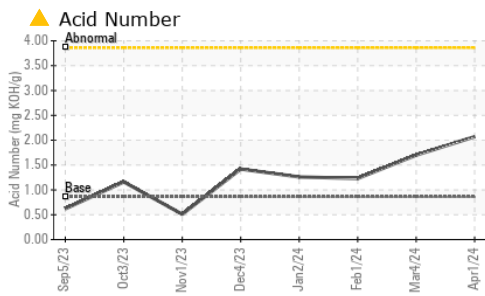
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	4	2	4
Potassium	ppm	ASTM D5185m	>20	37	1	32
Fuel	%	ASTM D3524	>4.0	0.2	0.2	0.2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.4	5.0	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	16.9	16.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The BN level is low. The AN level is at the top-end of the recommended limit.

Sodium	ppm	ASTM D5185m		7	2	7
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	2	6	<1	3
Manganese	ppm	ASTM D5185m	1	1	<1	<1
Magnesium	ppm	ASTM D5185m	5	9	10	11
Calcium	ppm	ASTM D5185m	1220	1383	1410	1283
Phosphorus	ppm	ASTM D5185m	298	315	303	302
Zinc	ppm	ASTM D5185m	350	359	394	347
Sulfur	ppm	ASTM D5185m	1995	2521	2405	2301
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	10.1	10.9
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	▲ 2.07	1.70	1.23
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	▲ 1.91	1.98	2.64
Visc @ 100°C	cSt	ASTM D445	13.7	13.9	13.7	13.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117152 **Received** : 11 Apr 2024
Lab Number : 06146042 **Tested** : 16 Apr 2024
Unique Number : 10976120 **Diagnosed** : 16 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

ENERVEST OPERATING - POPLAR GAP A
 1618 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)