

Machine Id
M7 (S/N 1457487)
Component
Biogas Engine
Fluid
PETRO CANADA SENTRON LD 8000 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0120742	PCA0120754	PCA0120755
Sample Date		Client Info		18 Jun 2024	18 May 2024	27 Apr 2024
Machine Age	hrs	Client Info		12614	12113	11591
Oil Age	hrs	Client Info		9104	9104	8582
Filter Age	hrs	Client Info		0	9104	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>45	20	20	19
Chromium	ppm	ASTM D5185m	>2	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	2
Lead	ppm	ASTM D5185m	>5	4	5	5
Copper	ppm	ASTM D5185m	>14	<1	<1	<1
Tin	ppm	ASTM D5185m	>13	7	2	4
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

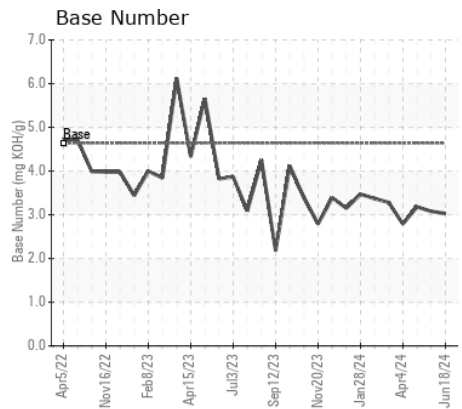
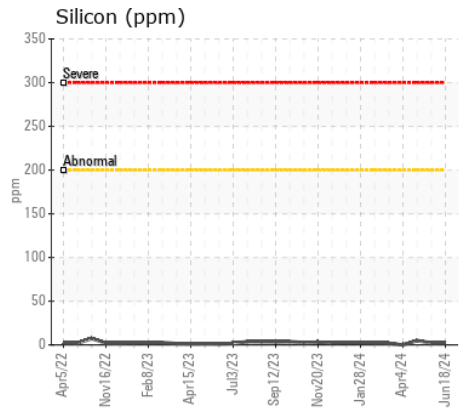
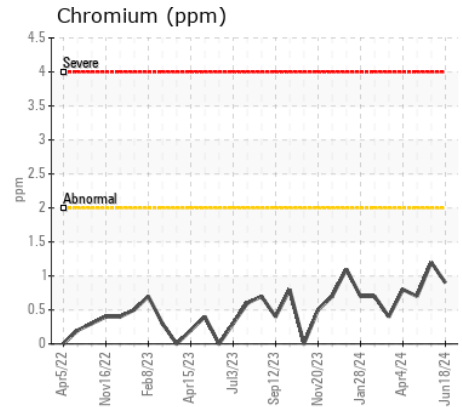
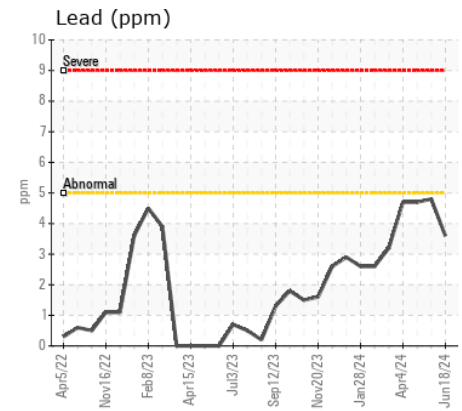
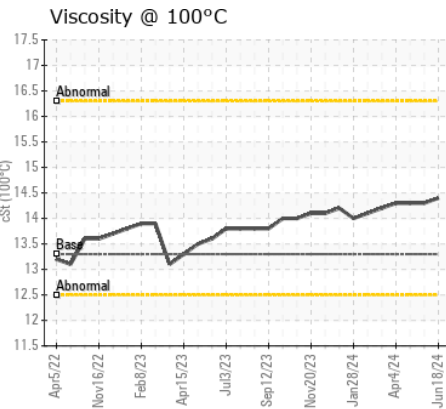
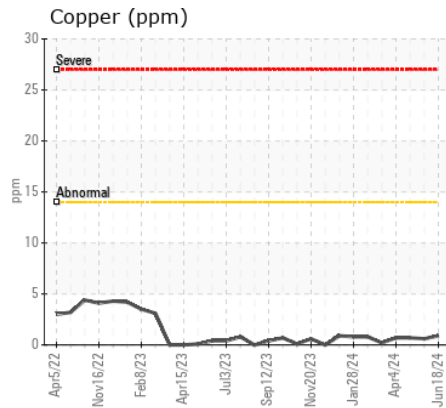
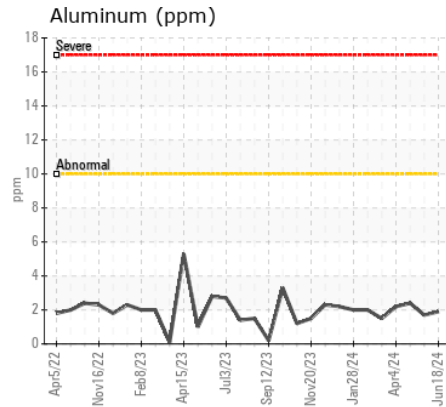
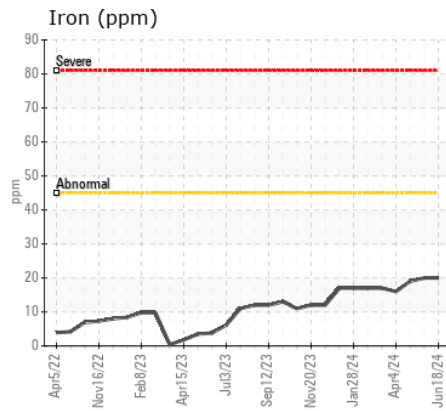
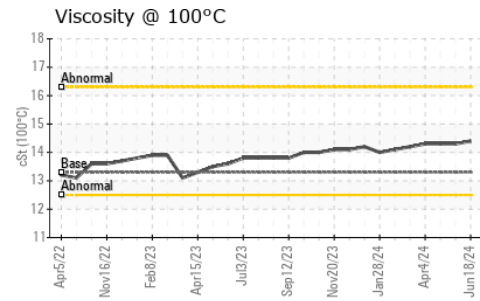
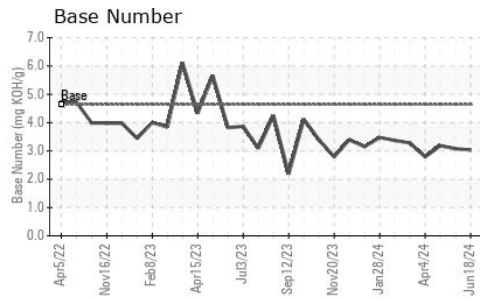
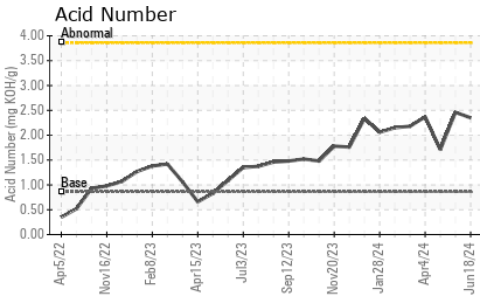
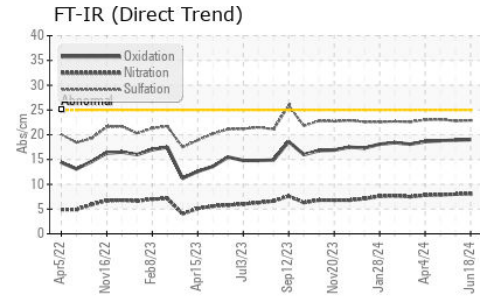
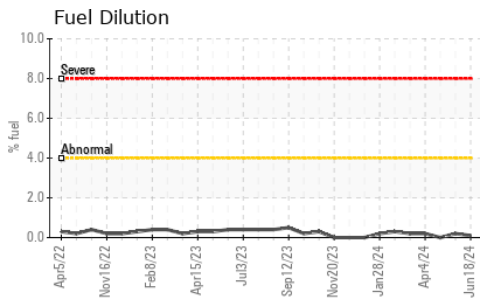
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>200	2	2	5
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Fuel	%	ASTM D3524	>4.0	0.1	0.2	0.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	22.8	23.1
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 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.

Sodium	ppm	ASTM D5185m		15	11	10
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		9	10	14
Calcium	ppm	ASTM D5185m	1351	1860	1823	1785
Phosphorus	ppm	ASTM D5185m	302	326	329	348
Zinc	ppm	ASTM D5185m	358	421	433	463
Sulfur	ppm	ASTM D5185m	2758	3365	3402	3829
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	18.9	18.8
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	2.35	2.46	1.709
Base Number (BN)	mg KOH/g	ASTM D2896	4.64	3.03	3.08	3.18
Visc @ 100°C	cSt	ASTM D445	13.3	14.4	14.3	14.3



Certificate L2367

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

Sample No. : PCA0120742

Lab Number : 06232389

Unique Number : 11115882

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

Received : 10 Jul 2024

Tested : 12 Jul 2024

Diagnosed : 12 Jul 2024 - Sean Felton

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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