

Machine Id  
**M6 (S/N 1457485)**  
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		<b>PCA0120732</b>	PCA0120734	PCA0106208
Sample Date		Client Info		<b>03 Apr 2024</b>	11 Mar 2024	14 Feb 2024
Machine Age	hrs	Client Info		<b>6790</b>	6292	5764
Oil Age	hrs	Client Info		<b>4890</b>	4390	3890
Filter Age	hrs	Client Info		<b>0</b>	0	3890
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>45	<b>9</b>	9	11
Chromium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	2	3
Lead	ppm	ASTM D5185m	>5	<b>5</b>	4	▲ 7
Copper	ppm	ASTM D5185m	>14	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>13	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

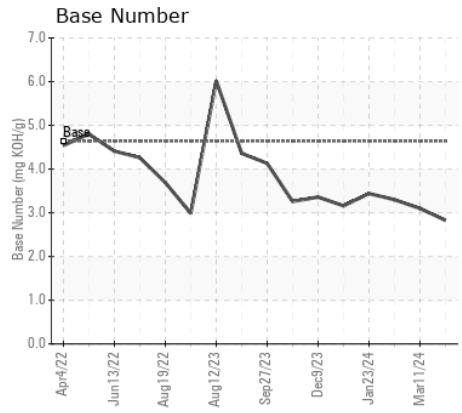
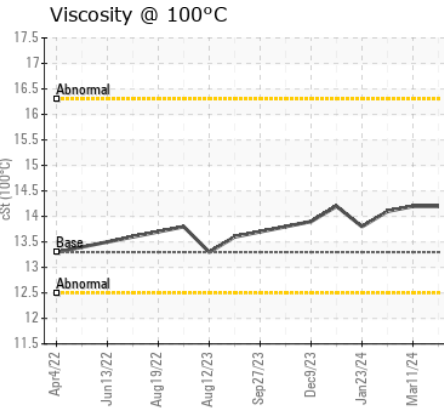
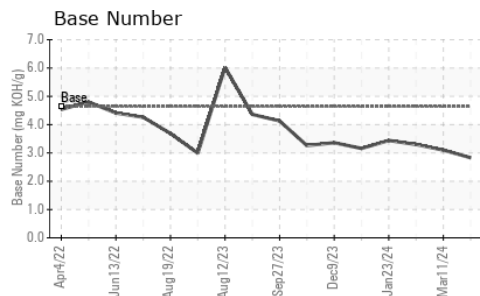
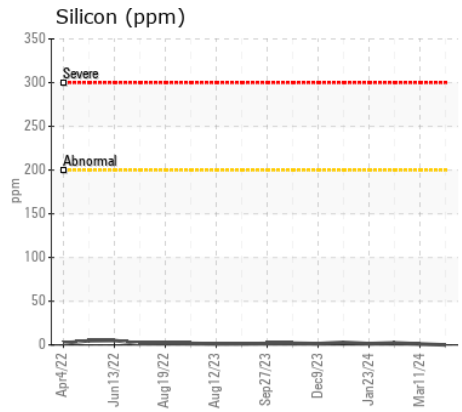
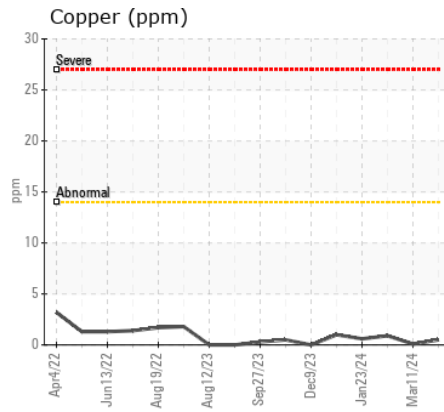
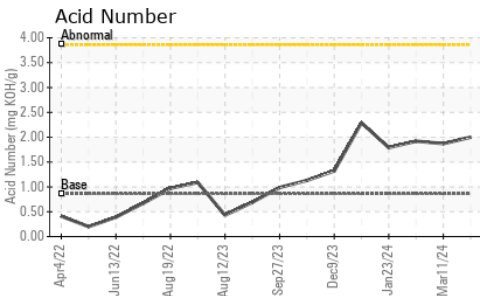
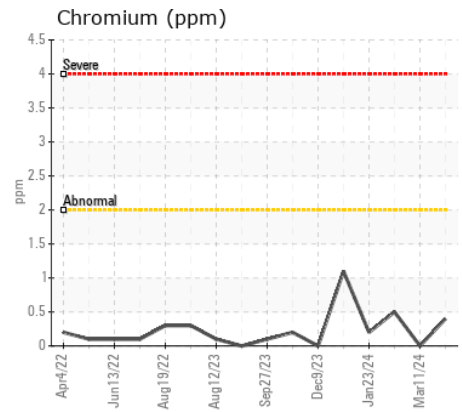
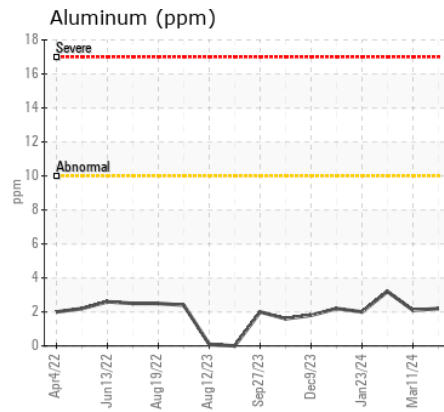
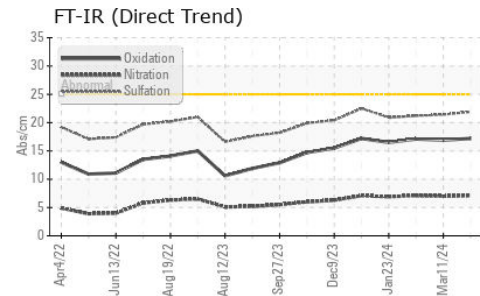
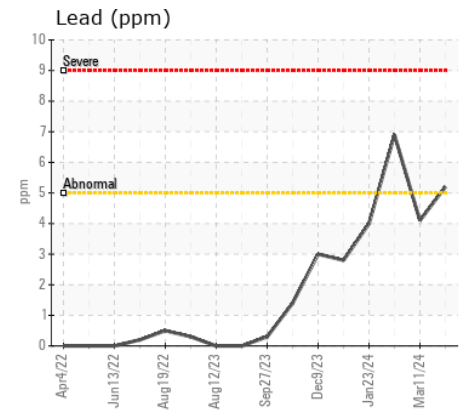
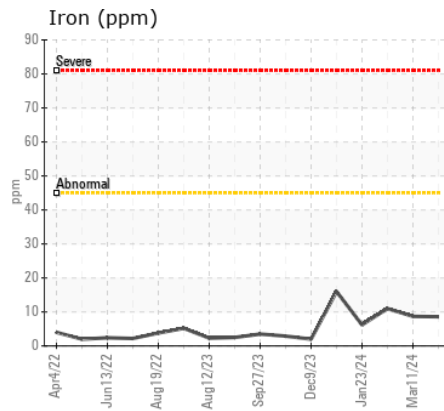
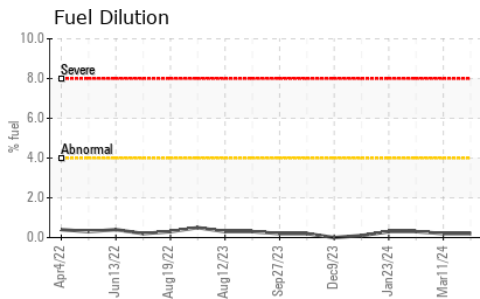
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>200	<b>0</b>	1	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	4
Fuel	%	ASTM D3524	>4.0	<b>0.2</b>	0.2	0.3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	7.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	21.4	21.2
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>4</b>	4	5
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>13</b>	14	12
Calcium	ppm	ASTM D5185m	1351	<b>1942</b>	1788	2562
Phosphorus	ppm	ASTM D5185m	302	<b>335</b>	316	441
Zinc	ppm	ASTM D5185m	358	<b>436</b>	406	638
Sulfur	ppm	ASTM D5185m	2758	<b>3900</b>	3432	4949
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.2</b>	16.9	17.1
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	<b>2.00</b>	1.87	1.92
Base Number (BN)	mg KOH/g	ASTM D2896	4.64	<b>2.83</b>	3.10	3.30
Visc @ 100°C	cSt	ASTM D445	13.3	<b>14.2</b>	14.2	14.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0120732 **Received** : 18 Apr 2024  
**Lab Number** : 06153263 **Tested** : 22 Apr 2024  
**Unique Number** : 10983341 **Diagnosed** : 22 Apr 2024 - Sean Felton  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**AMERICAN PETROLEUM**  
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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)