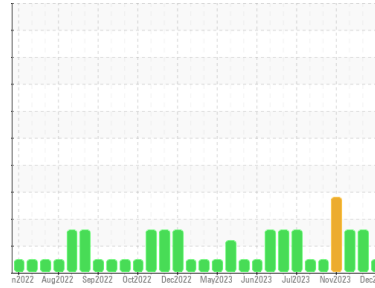


Machine Id  
**JENBACHER X237 (S/N 1351125)**

Component  
**Circulating Natural Gas Engine**

Fluid  
**PETRO CANADA SENTRON CG 40 (600 LTR)**



**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
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	<b>PC0077247</b>	PC0077248	PC0077249
Sample Date	Client Info	<b>11 Dec 2023</b>	30 Nov 2023	17 Nov 2023
Machine Age	hrs	<b>35764</b>	35505	35197
Oil Age	hrs	<b>71</b>	1785	1477
Oil Changed	Client Info	<b>Changed</b>	Not Changd	Not Changd
Sample Status		<b>NORMAL</b>	ABNORMAL	ABNORMAL

**CONTAMINATION**

method	limit/base	current	history1	history2
Water	WC Method >.2	<b>NEG</b>	NEG	NEG

**WEAR METALS**

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>2</b>	3	3
Chromium	ppm ASTM D5185(m) >5	<b>0</b>	<1	0
Nickel	ppm ASTM D5185(m) >2	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >3	<b>&lt;1</b>	<1	<1
Aluminum	ppm ASTM D5185(m) >15	<b>2</b>	5	5
Lead	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1
Copper	ppm ASTM D5185(m) >15	<b>&lt;1</b>	1	<1
Tin	ppm ASTM D5185(m) >5	<b>0</b>	3	2
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<b>5</b>	3	4
Barium	ppm ASTM D5185(m) 1	<b>&lt;1</b>	<1	<1
Molybdenum	ppm ASTM D5185(m) 2	<b>1</b>	1	1
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 9	<b>18</b>	20	21
Calcium	ppm ASTM D5185(m) 2712	<b>2626</b>	2884	2957
Phosphorus	ppm ASTM D5185(m) 292	<b>259</b>	279	279
Zinc	ppm ASTM D5185(m) 342	<b>309</b>	346	351
Sulfur	ppm ASTM D5185(m) 2575	<b>2469</b>	2598	2609
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

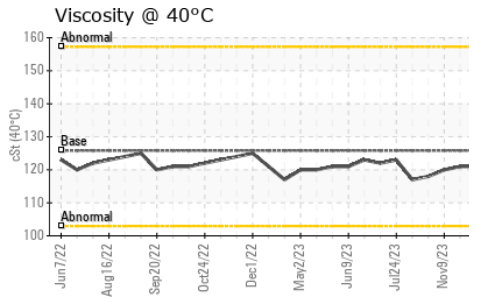
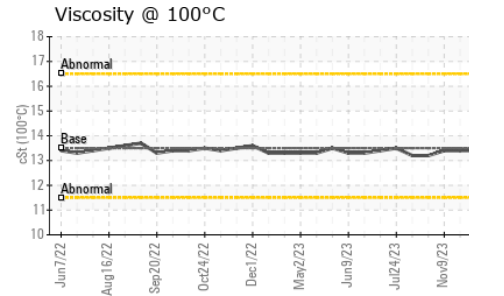
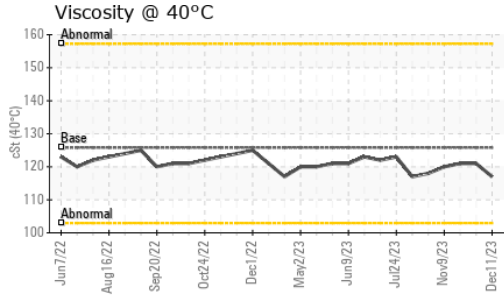
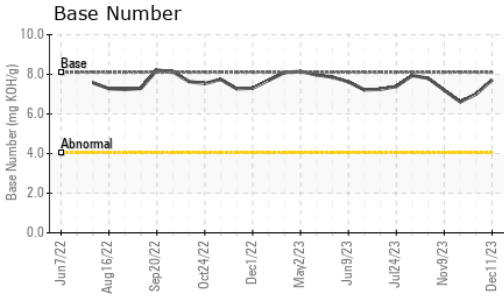
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >100	<b>15</b>	▲ 143	▲ 126
Sodium	ppm ASTM D5185(m) >20	<b>1</b>	2	<1
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	4	0

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.98	<b>0.67</b>	1.99	1.85
Base Number (BN)	mg KOH/g ASTM D2896* 8.1	<b>7.72</b>	7.00	6.61
i-pH	Scale 0-14 ASTM D7946* <4.5	<b>5.10</b>	4.68	4.70

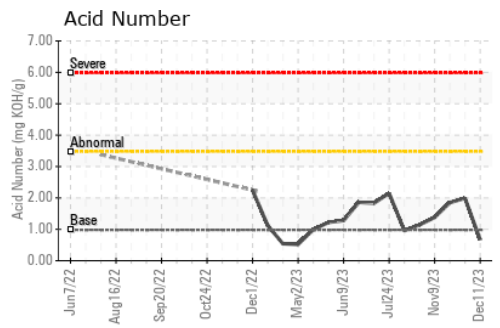
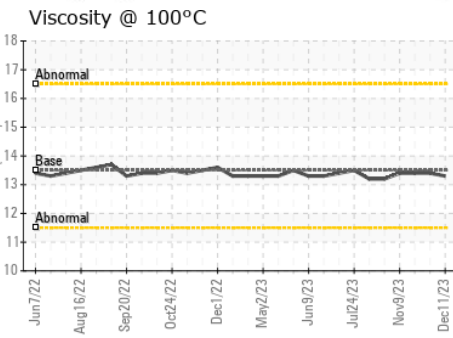
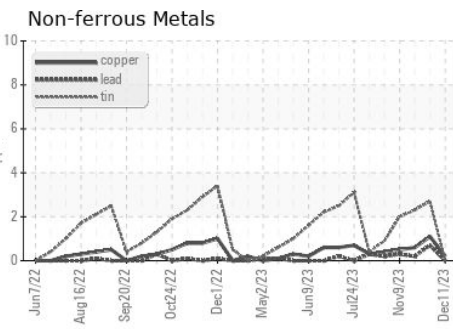
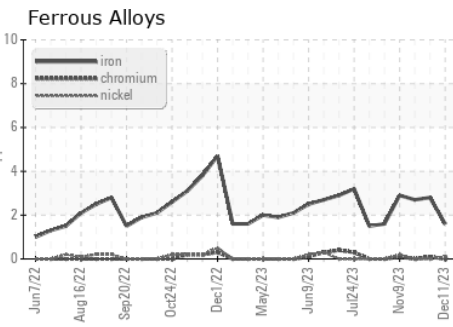
# OIL ANALYSIS REPORT



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	VLITE
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*	>.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	125.8	117	121
Visc @ 100°C	cSt	ASTM D7279(m)	13.5	13.3	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	105	109	106

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CHALEUR REGIONAL SERVICE COMMISSION  
**Sample No.** : PC0077247 **Received** : 13 Dec 2023  
**Lab Number** : 02602849 **Diagnosed** : 15 Dec 2023  
**Unique Number** : 5695934 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: i-pH, KV40, VI )  
 To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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