

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>PC0070722</b>	PC0070721	PC0006145
Sample Date	Client Info	<b>04 Feb 2023</b>	16 Dec 2022	01 Dec 2022
Machine Age	hrs	<b>33787</b>	31493	31136
Oil Age	hrs	<b>67</b>	217	1682
Oil Changed	Client Info	<b>Changed</b>	Changed	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR METALS**

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>2</b>	2	5
Chromium	ppm ASTM D5185(m) >5	<b>0</b>	0	<1
Nickel	ppm ASTM D5185(m) >2	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >15	<b>1</b>	3	12
Lead	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >15	<b>&lt;1</b>	0	1
Tin	ppm ASTM D5185(m) >5	<b>0</b>	<1	3
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<1
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>6</b>	1	2
Barium	ppm ASTM D5185(m) 1	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 2	<b>2</b>	1	1
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 9	<b>20</b>	20	17
Calcium	ppm ASTM D5185(m) 2712	<b>2734</b>	2850	3267
Phosphorus	ppm ASTM D5185(m) 292	<b>294</b>	286	315
Zinc	ppm ASTM D5185(m) 342	<b>325</b>	312	349
Sulfur	ppm ASTM D5185(m) 2575	<b>2589</b>	2637	2841
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

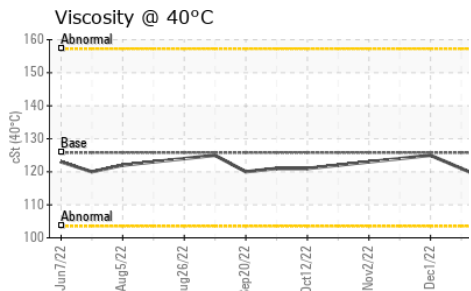
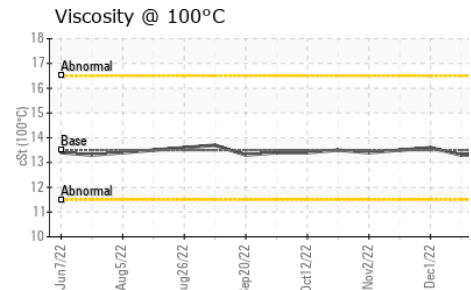
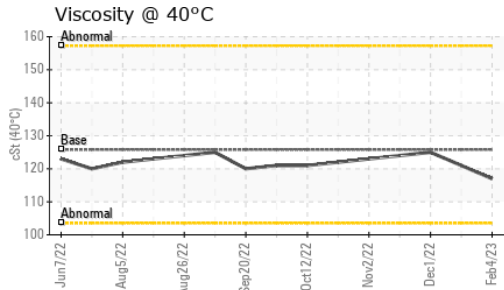
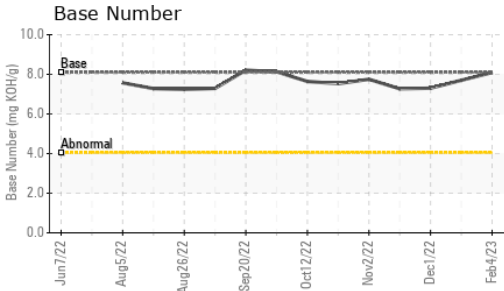
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >100	<b>16</b>	29	▲ 164
Sodium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.98	<b>0.54</b>	1.12	2.25
Base Number (BN)	mg KOH/g ASTM D2896* 8.1	<b>8.09</b>	7.70	7.30
i-pH	Scale 0-14 ASTM D7946* <4.5	<b>6.24</b>	6184	4.51

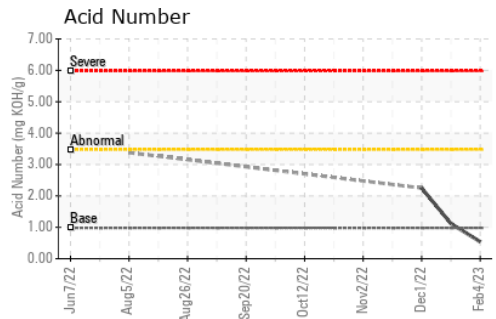
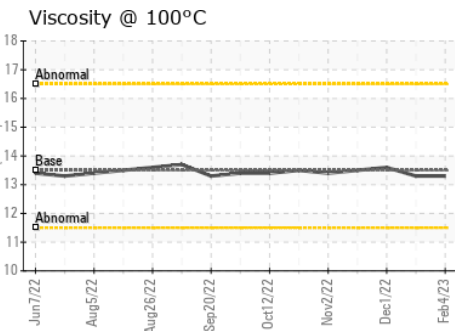
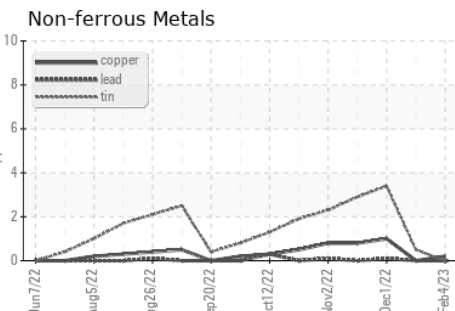
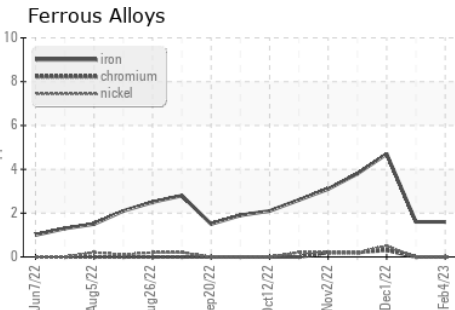
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	125.8	<b>117</b>	121
Visc @ 100°C	cSt	ASTM D7279(m)	13.5	<b>13.3</b>	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	105	<b>109</b>	104

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CHALEUR REGIONAL SERVICE COMMISSION  
**Sample No.** : PC0070722 **Received** : 09 Aug 2023  
**Lab Number** : 02574846 **Diagnosed** : 11 Aug 2023  
**Unique Number** : 5619897 **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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