



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**CATERPILLAR 972G 2220400**

Component  
**Front Differential**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0072622</b>	PC0072421	---
Sample Date		Client Info		<b>14 Dec 2023</b>	06 Mar 2023	---
Machine Age	hrs	Client Info		<b>24694</b>	23760	---
Oil Age	hrs	Client Info		<b>1000</b>	1200	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>6</b>	12	---
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	3	---
Lead	ppm	ASTM D5185(m)	>13	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>103	<b>9</b>	18	---
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

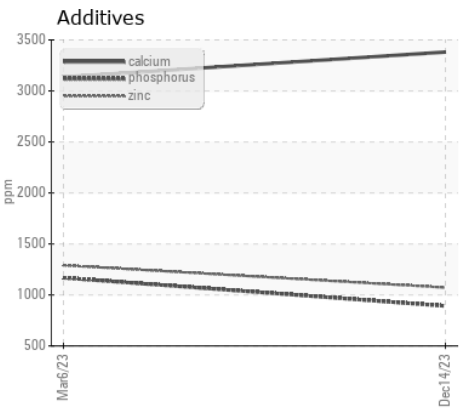
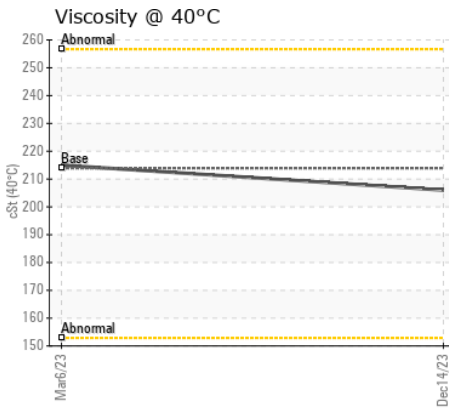
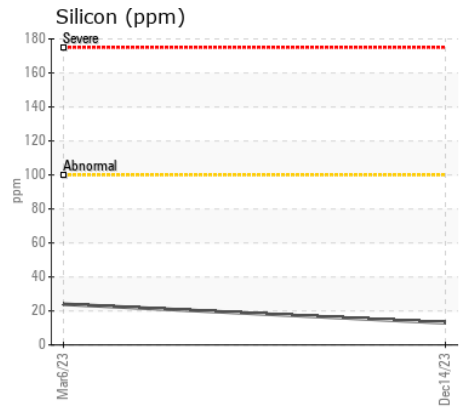
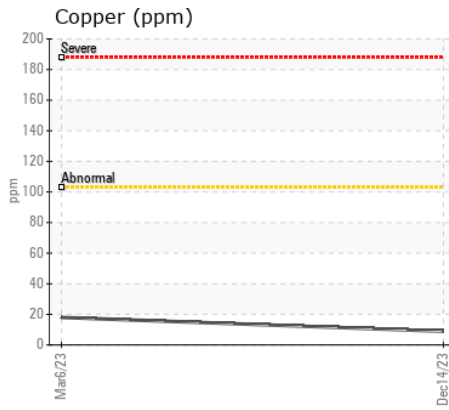
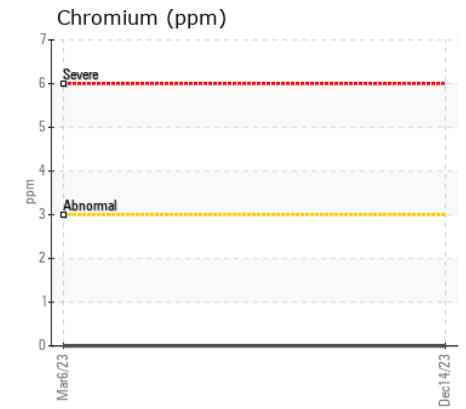
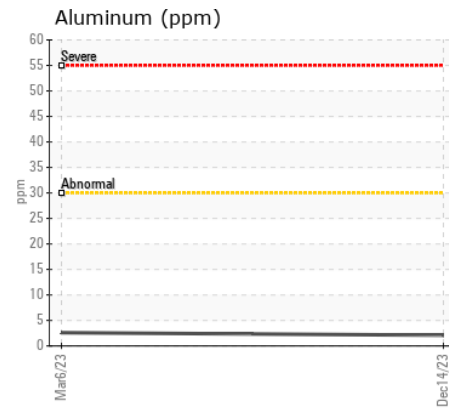
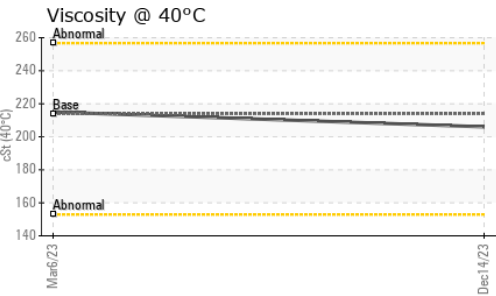
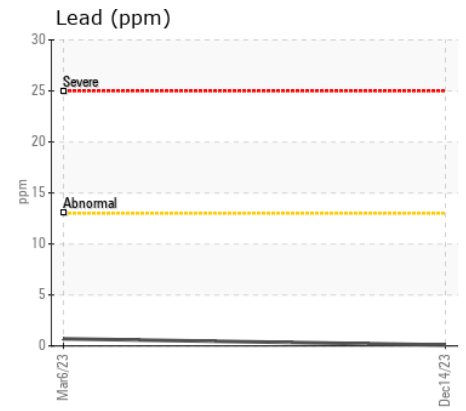
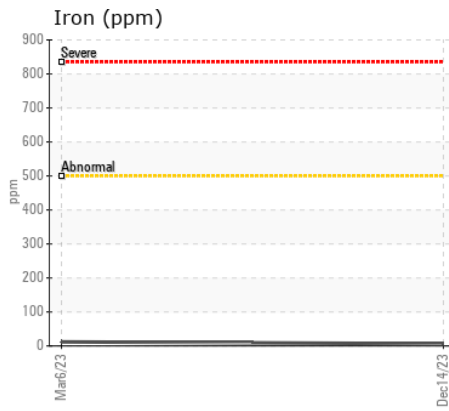
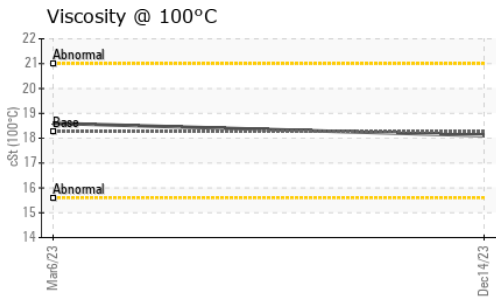
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	<b>13</b>	24	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Boron	ppm	ASTM D5185(m)	2	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	9	<b>11</b>	17	---
Calcium	ppm	ASTM D5185(m)	3114	<b>3381</b>	3136	---
Phosphorus	ppm	ASTM D5185(m)	1099	<b>892</b>	1168	---
Zinc	ppm	ASTM D5185(m)	1245	<b>1072</b>	1291	---
Sulfur	ppm	ASTM D5185(m)	7086	<b>3906</b>	4759	---
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	<b>206</b>	215	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.26	<b>18.1</b>	18.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	<b>96</b>	96	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0072622 **Recieved** : 08 Jan 2024  
**Lab Number** : 02607231 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708317 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV100, 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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