



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 980G 2230002
Component
Transmission (Auto)
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

RECOMMENDATION

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084804	PC0071128	---
Sample Date		Client Info		09 Apr 2024	24 Jan 2023	---
Machine Age	hrs	Client Info		30577	29492	---
Oil Age	hrs	Client Info		2000	1000	---
Filter Age	hrs	Client Info		2000	1000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Copper ppm levels are abnormal. Clutch disc wear or oil cooler leaching indicated.

Iron	ppm	ASTM D5185(m)	>160	7	6	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>5	0	0	---
Aluminum	ppm	ASTM D5185(m)	>50	1	2	---
Lead	ppm	ASTM D5185(m)	>50	6	10	---
Copper	ppm	ASTM D5185(m)	>225	▲ 278	▲ 353	---
Tin	ppm	ASTM D5185(m)	>10	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

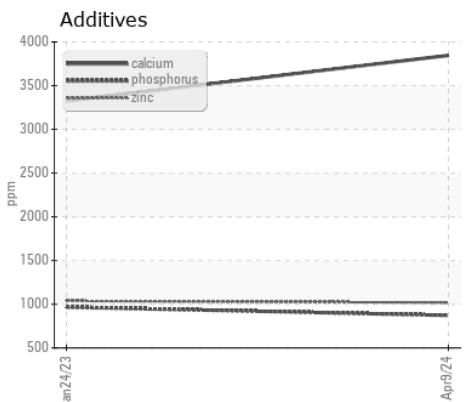
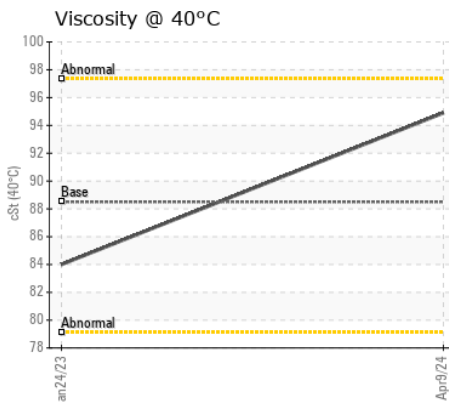
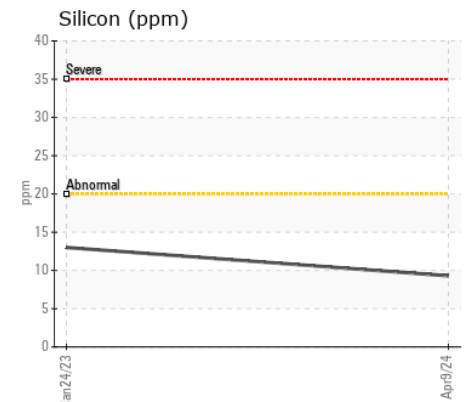
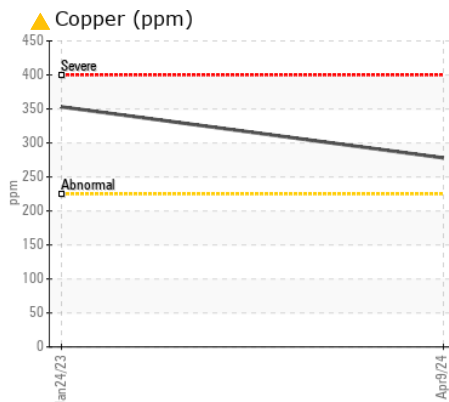
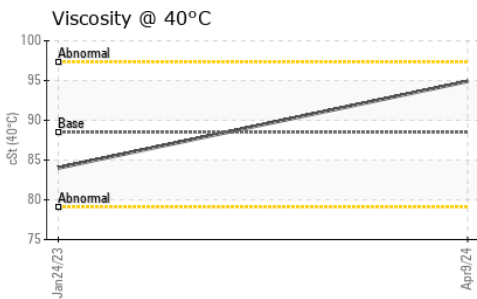
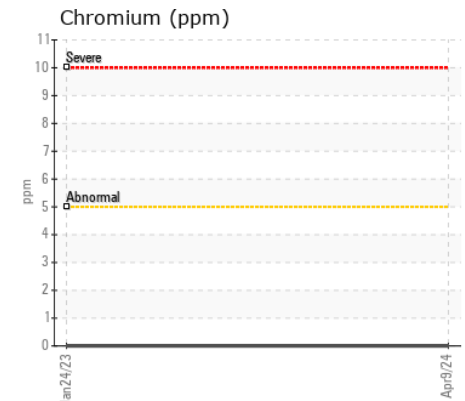
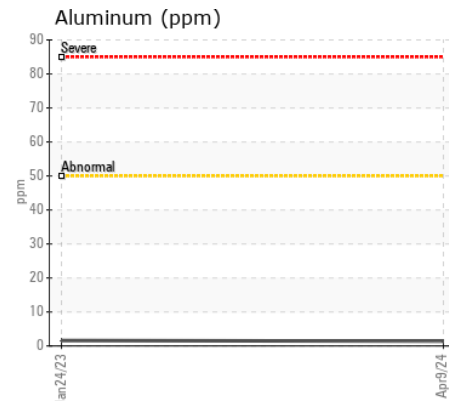
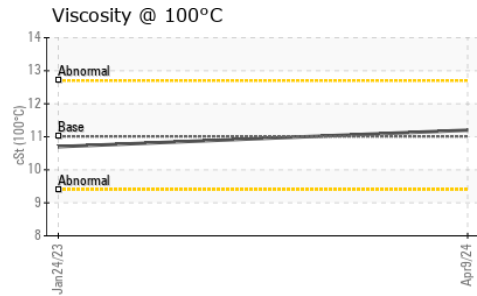
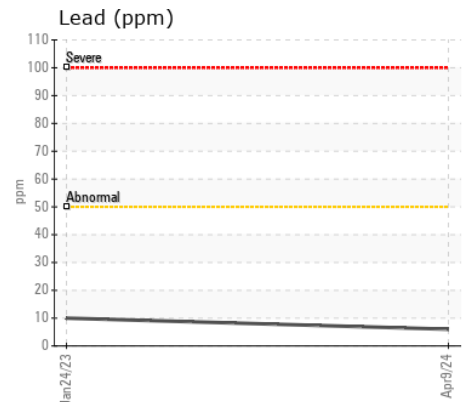
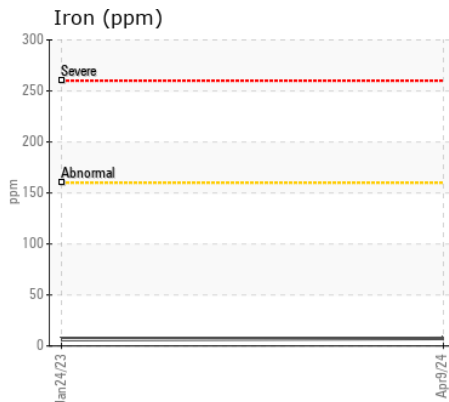
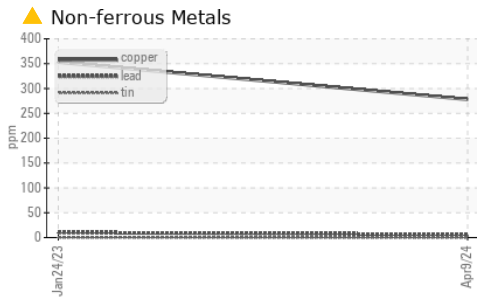
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	9	13	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		0	<1	---
Boron	ppm	ASTM D5185(m)	2	1	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	---
Manganese	ppm	ASTM D5185(m)	9	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1	14	15	---
Calcium	ppm	ASTM D5185(m)	3131	3846	3325	---
Phosphorus	ppm	ASTM D5185(m)	1194	872	967	---
Zinc	ppm	ASTM D5185(m)	1281	1018	1038	---
Sulfur	ppm	ASTM D5185(m)	3811	2993	2959	---
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	94.9	84.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.01	11.2	10.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	110	103	111	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084804 **Received** : 03 May 2024
Lab Number : **02633185** **Tested** : 03 May 2024
Unique Number : 5774338 **Diagnosed** : 03 May 2024 - 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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