



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 972G 2220500

Component
Rear 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		PC0072628	PC0065594	PC0043125
Sample Date		Client Info		28 Dec 2023	16 Dec 2022	13 Jan 2022
Machine Age	hrs	Client Info		28920	27715	26549
Oil Age	hrs	Client Info		1500	1166	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	21	4	4
Chromium	ppm	ASTM D5185(m)	>3	0	0	0
Nickel	ppm	ASTM D5185(m)	>3	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	1	1
Lead	ppm	ASTM D5185(m)	>13	1	<1	0
Copper	ppm	ASTM D5185(m)	>103	12	1	<1
Tin	ppm	ASTM D5185(m)	>5	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

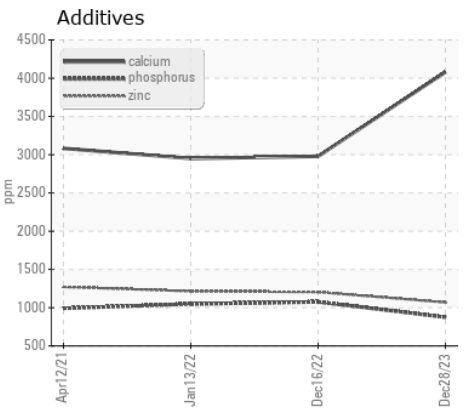
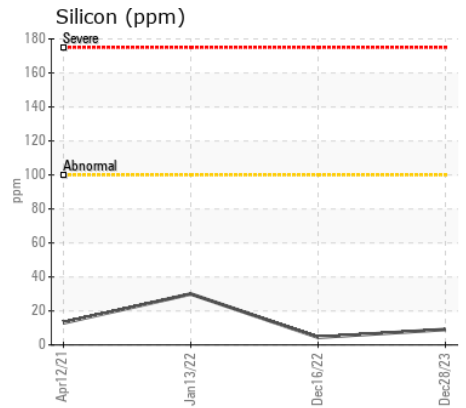
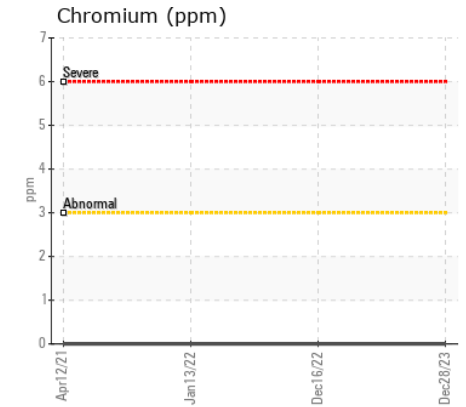
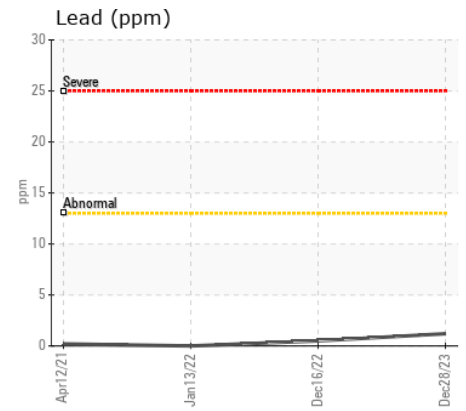
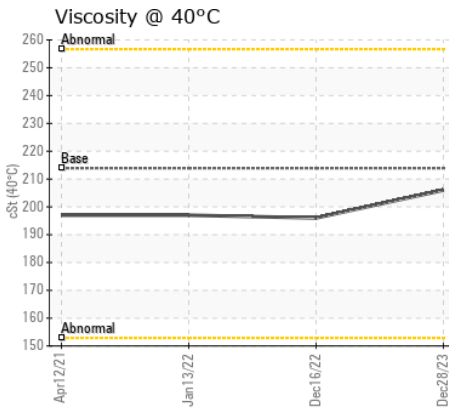
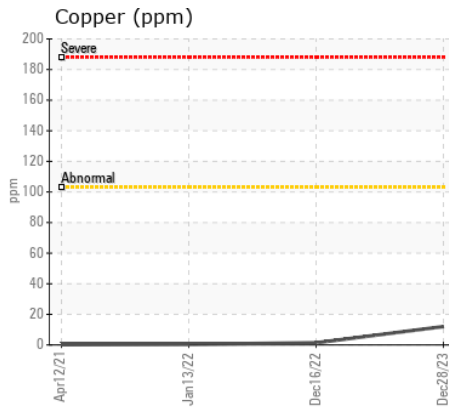
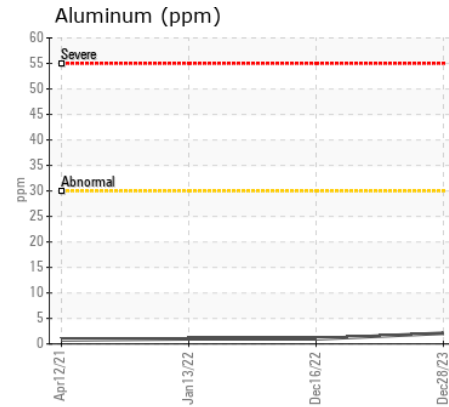
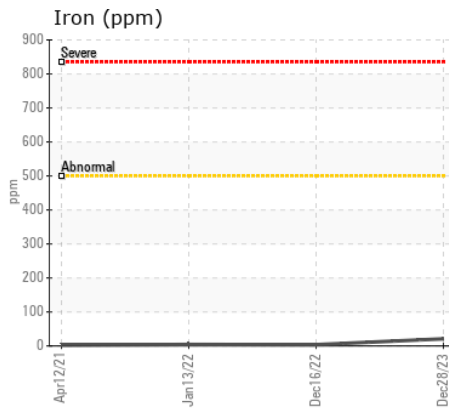
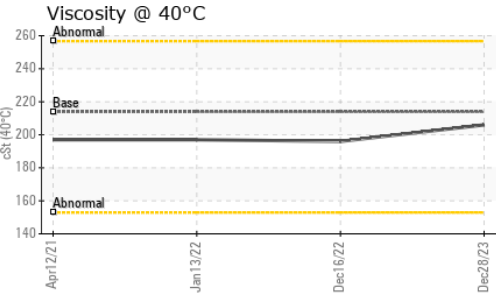
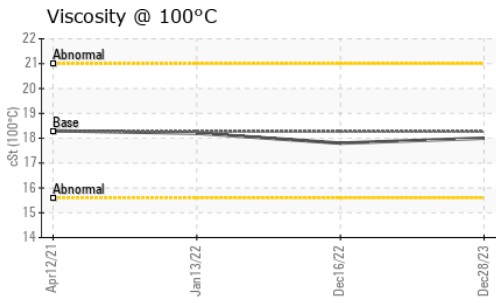
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	9	4	30
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	1	<1
Boron	ppm	ASTM D5185(m)	2	2	<1	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<1	0	<1
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	9	9	8	12
Calcium	ppm	ASTM D5185(m)	3114	4080	2979	2950
Phosphorus	ppm	ASTM D5185(m)	1099	876	1076	1049
Zinc	ppm	ASTM D5185(m)	1245	1069	1205	1215
Sulfur	ppm	ASTM D5185(m)	7086	6094	4950	10431
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	206	196	197
Visc @ 100°C	cSt	ASTM D7279(m)	18.26	18.0	17.8	18.2
Viscosity Index (VI)	Scale	ASTM D2270*	96	95	98	101



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0072628 **Received** : 08 Jan 2024
Lab Number : 02607230 **Diagnosed** : 09 Jan 2024
Unique Number : 5708316 **Diagnostician** : Wes Davis
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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