



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR R1600H SCP222
Component
Transmission (Manual)
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886113	WC0883804	WC0750479
Sample Date		Client Info		18 Jan 2024	07 Dec 2023	12 Oct 2023
Machine Age	hrs	Client Info		763	0	260
Oil Age	hrs	Client Info		763	0	260
Filter Age	hrs	Client Info		700	0	260
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	4	15	13
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>7	0	<1	2
Aluminum	ppm	ASTM D5185(m)	>25	2	1	1
Lead	ppm	ASTM D5185(m)	>45	<1	3	3
Copper	ppm	ASTM D5185(m)	>225	1	23	20
Tin	ppm	ASTM D5185(m)	>10	0	<1	<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

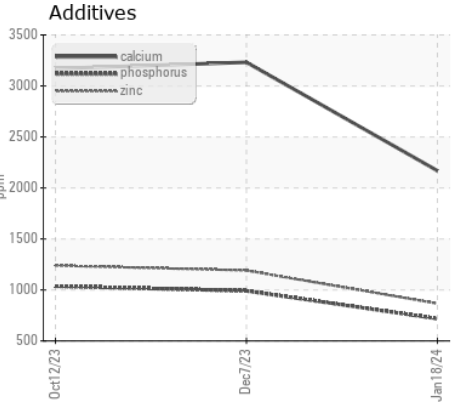
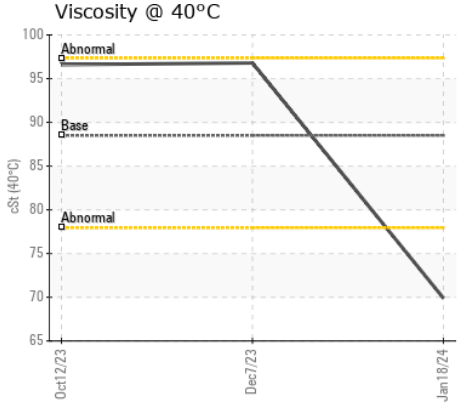
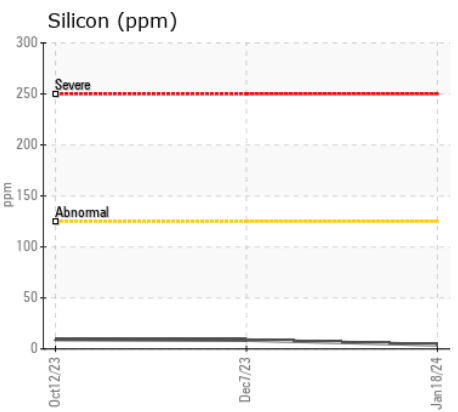
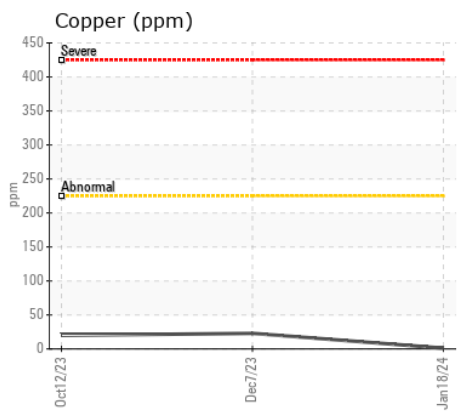
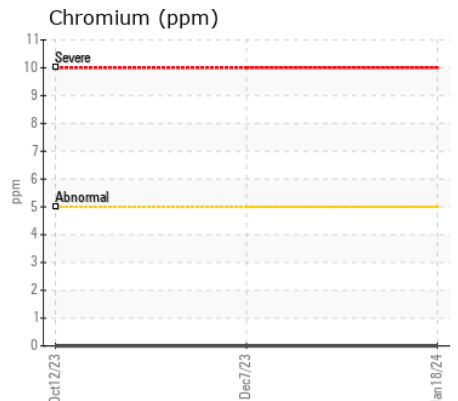
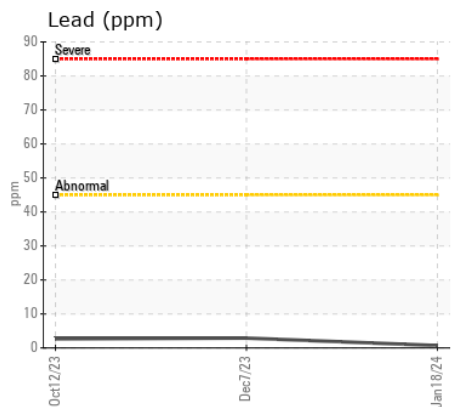
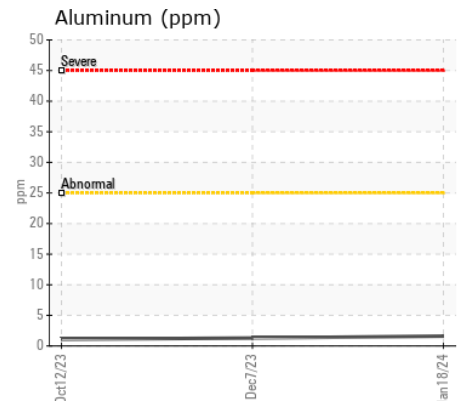
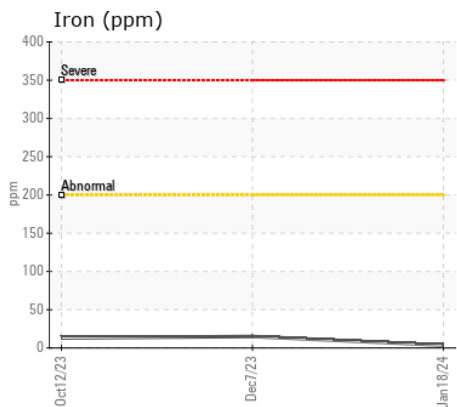
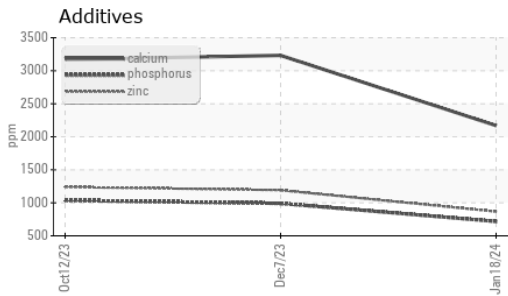
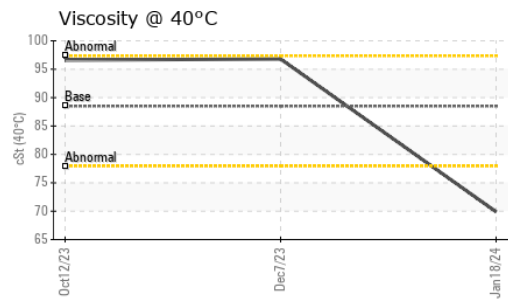
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	4	9	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
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*	>0.1	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of fluid.
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		0	4	4
Boron	ppm	ASTM D5185(m)	2	4	2	2
Barium	ppm	ASTM D5185(m)	0	0	2	2
Molybdenum	ppm	ASTM D5185(m)	0	1	0	0
Manganese	ppm	ASTM D5185(m)	9	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	21	11	12
Calcium	ppm	ASTM D5185(m)	3131	2169	3232	3170
Phosphorus	ppm	ASTM D5185(m)	1194	718	991	1037
Zinc	ppm	ASTM D5185(m)	1281	867	1191	1239
Sulfur	ppm	ASTM D5185(m)	3811	3327	3579	3767
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	69.9	96.8	96.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886113 **Received** : 23 Jan 2024
Lab Number : 02610625 **Diagnosed** : 23 Jan 2024
Unique Number : 5711711 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.