



Area
Haul Truck
Machine Id
HT5024
Component
Front Right Wheel Hub
Fluid
PETRO CANADA TRAXON 85W140 (13 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0074946	PC0047200	---
Sample Date		Client Info		24 Dec 2023	07 Jun 2021	---
Machine Age	hrs	Client Info		9972	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		253	---	---
Iron	ppm	ASTM D5185(m)	>500	512	101	---
Chromium	ppm	ASTM D5185(m)	>8	6	1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>5	3	1	---
Lead	ppm	ASTM D5185(m)	>5	0	<1	---
Copper	ppm	ASTM D5185(m)	>50	13	10	---
Tin	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

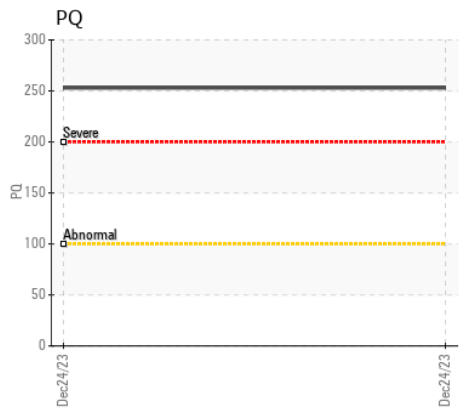
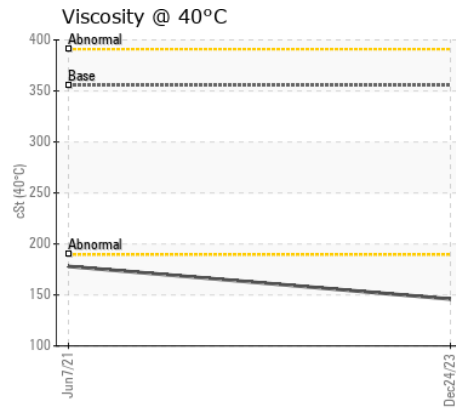
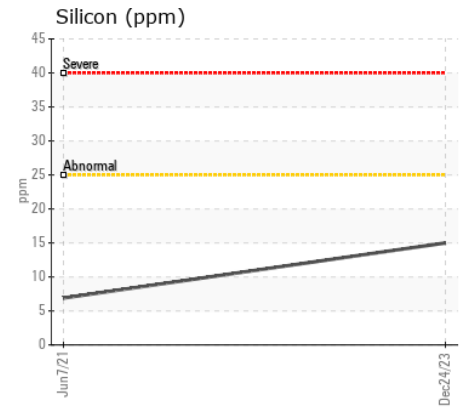
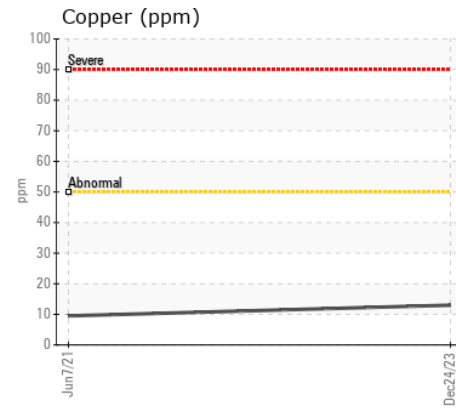
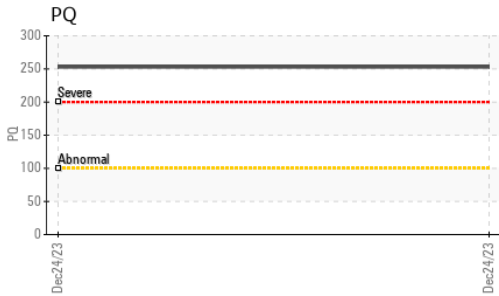
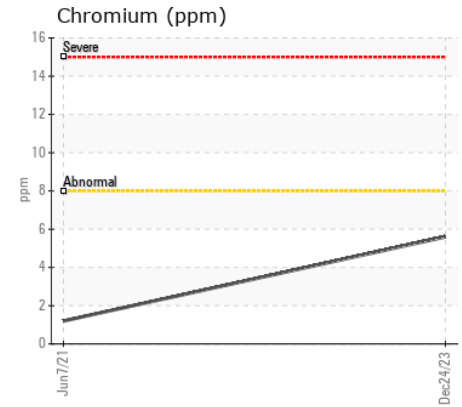
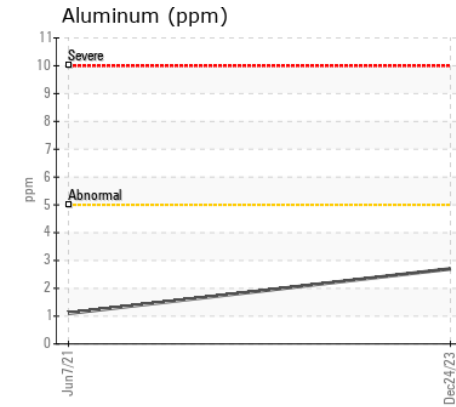
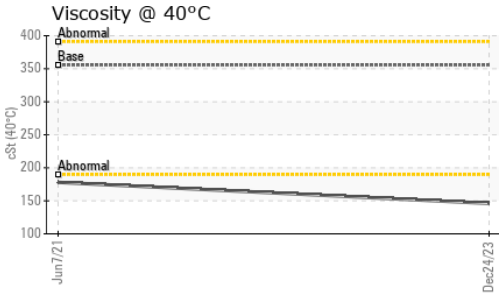
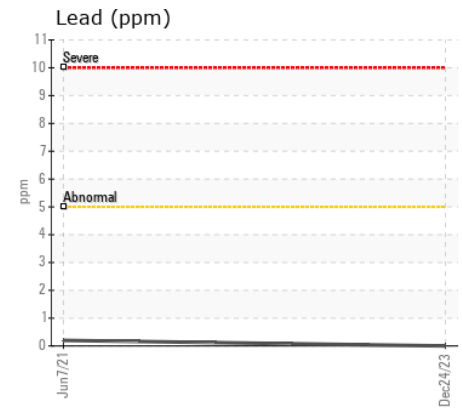
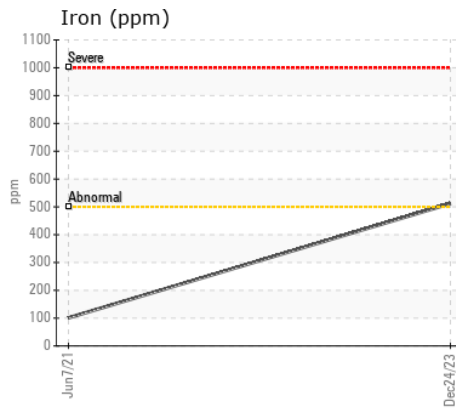
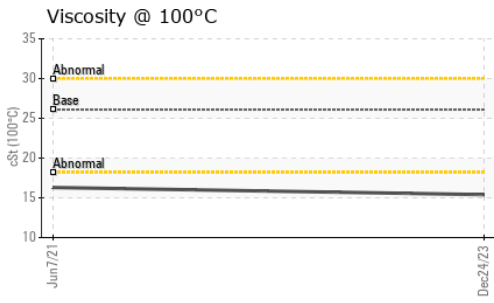
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	15	7	---
Potassium	ppm	ASTM D5185(m)	>20	5	1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 80W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	5	---
Boron	ppm	ASTM D5185(m)	243	111	8	---
Barium	ppm	ASTM D5185(m)	0	3	325	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		5	2	---
Magnesium	ppm	ASTM D5185(m)	0	2	<1	---
Calcium	ppm	ASTM D5185(m)	0	10	8	---
Phosphorus	ppm	ASTM D5185(m)	988	722	1662	---
Zinc	ppm	ASTM D5185(m)	0	13	15	---
Sulfur	ppm	ASTM D5185(m)	24530	19476	27119	---
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	146	178	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	15.4	16.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	107	94	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074946 **Received** : 11 Jan 2024
Lab Number : 02608268 **Diagnosed** : 12 Jan 2024
Unique Number : 5709354 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, PQ, VI)

Lakeshore Gold Timmins West

Timmins, ON
CA

Contact: Dale Arseneau
darseneau@ca.panamericansilver.com

T: (705)269-4344

F:

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.