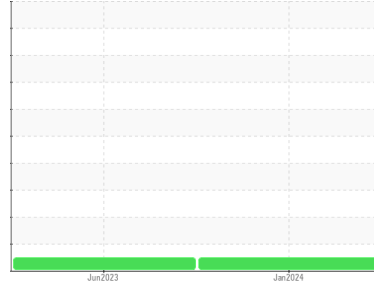




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Haul Truck**  
Machine Id  
**HT5023**  
Component  
**Rear Left Wheel Hub**  
Fluid  
**PETRO CANADA TRAXON 85W140 (13 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0067109</b>	PC0050693	---
Sample Date	Client Info		<b>20 Jan 2024</b>	04 Jun 2023	---
Machine Age	hrs	Client Info	<b>10587</b>	9532	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	<b>132</b>	204	---
Chromium	ppm	ASTM D5185(m) >8	<b>1</b>	2	---
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >5	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185(m) >50	<b>25</b>	45	---
Tin	ppm	ASTM D5185(m)	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

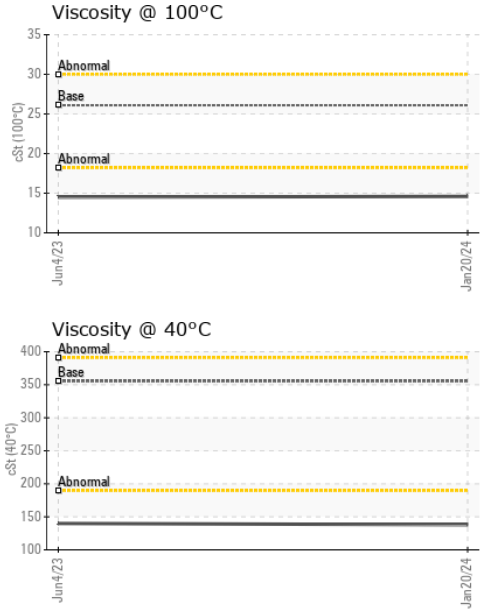
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 243	<b>200</b>	45	---
Barium	ppm	ASTM D5185(m) 0	<b>6</b>	12	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)	<b>1</b>	4	---
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	3	---
Calcium	ppm	ASTM D5185(m) 0	<b>32</b>	11	---
Phosphorus	ppm	ASTM D5185(m) 988	<b>914</b>	713	---
Zinc	ppm	ASTM D5185(m) 0	<b>28</b>	41	---
Sulfur	ppm	ASTM D5185(m) 24530	<b>17793</b>	21480	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>7</b>	3	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---

# OIL ANALYSIS REPORT



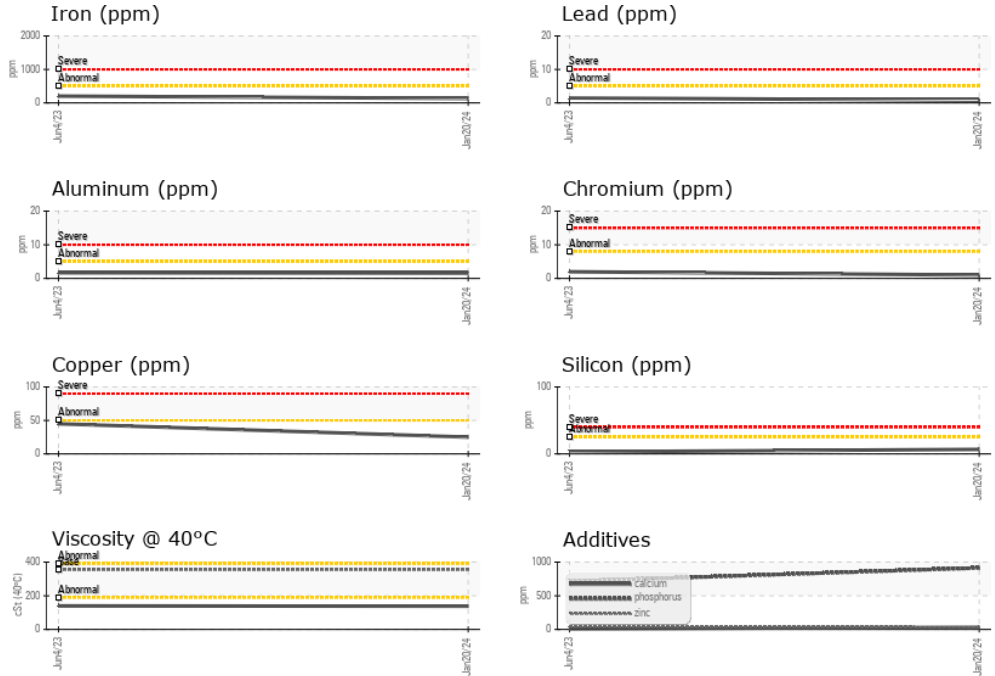
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	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*	>0.2	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	<b>138</b>	140
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	<b>14.6</b>	14.5
Viscosity Index (VI)	Scale	ASTM D2270*	97	<b>105</b>	102

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0067109 **Received** : 09 Feb 2024  
**Lab Number** : **02614457** **Tested** : 12 Feb 2024  
**Unique Number** : 5723552 **Diagnosed** : 12 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV100, 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.