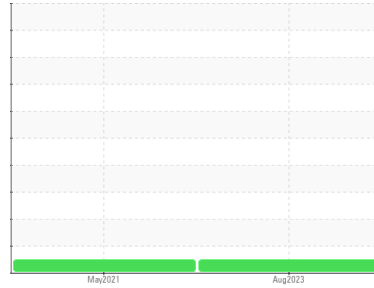




# OIL ANALYSIS REPORT

Area  
**Haul Truck**  
Machine Id  
**HT2404**  
Component  
**Rear Left Wheel Hub**  
Fluid  
**PETRO CANADA TRAXON 85W140 (--- LTR)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
Confirm the source of the lubricant being utilized for top-up/fill. 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**  
Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 80W90 range, advise investigate. 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>PC0050651</b>	PC0047176	---
Sample Date	Client Info		<b>31 Aug 2023</b>	27 May 2021	---
Machine Age	hrs	Client Info	<b>5529</b>	0	---
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	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	<b>129</b>	223	---
Chromium	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>3</b>	1	---
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>50	<b>8</b>	8	---
Tin	ppm	ASTM D5185(m)		<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
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>46</b>	40	---
Barium	ppm	ASTM D5185(m)	0	<b>4</b>	32	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)		<b>1</b>	2	---
Magnesium	ppm	ASTM D5185(m)	0	<b>3</b>	<1	---
Calcium	ppm	ASTM D5185(m)	0	<b>38</b>	7	---
Phosphorus	ppm	ASTM D5185(m)	988	<b>724</b>	690	---
Zinc	ppm	ASTM D5185(m)	0	<b>19</b>	13	---
Sulfur	ppm	ASTM D5185(m)	24530	<b>23228</b>	20769	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

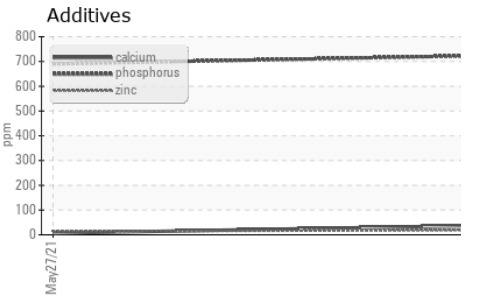
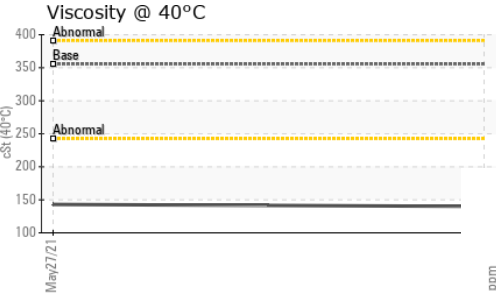
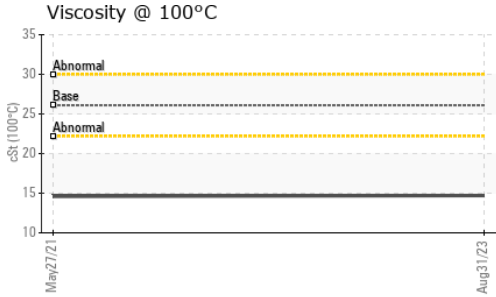
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>15</b>	3	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	---
Debris	scalar	Visual*	NONE	<b>VLITE</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	---

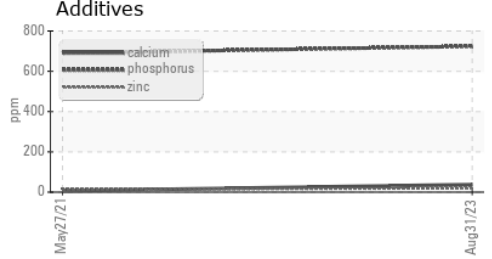
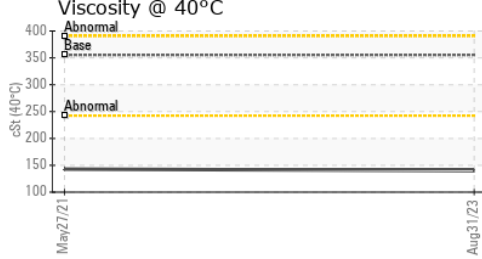
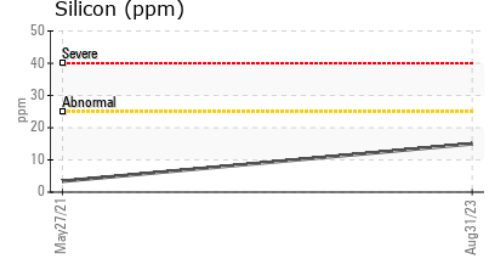
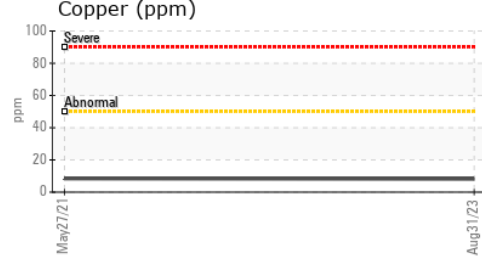
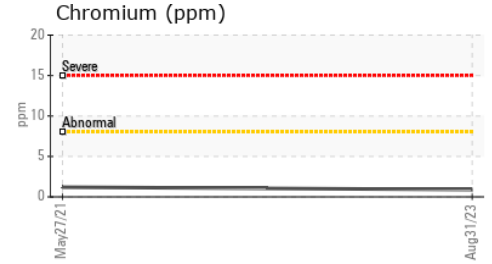
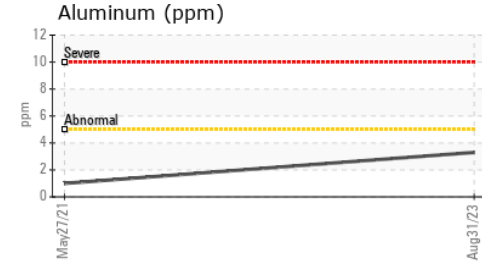
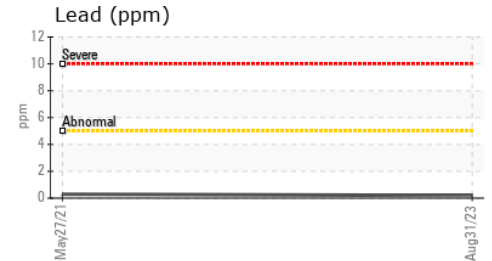
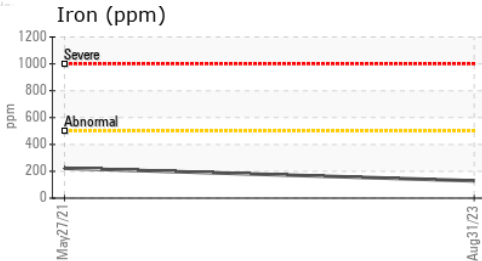
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	<b>140</b>	143	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	<b>14.7</b>	14.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	<b>104</b>	100	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0050651 **Received** : 18 Sep 2023  
**Lab Number** : 02583278 **Diagnosed** : 19 Sep 2023  
**Unique Number** : 5644343 **Diagnostician** : Bill Quesnel  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**Lakeshore Gold Timmins West**  
 Timmins, ON  
 CA  
 Contact: Adam Koscielak  
 adam.koscielak@HFSinclair.com  
 T:  
 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.