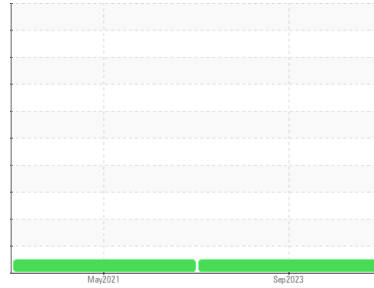




OIL ANALYSIS REPORT

Area
Haul Truck
Machine Id
HT5028
Component
Rear Right Wheel Hub
Fluid
PETRO CANADA TRAXON 85W140 (13 LTR)

Sample Rating Trend



NORMAL

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0075061	PC0047109	---
Sample Date	Client Info		19 Sep 2023	31 May 2021	---
Machine Age	hrs	Client Info	6528	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	145	133	---
Chromium	ppm	ASTM D5185(m)	>8	1	1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>5	<1	1	---
Lead	ppm	ASTM D5185(m)	>5	0	0	---
Copper	ppm	ASTM D5185(m)	>50	3	4	---
Tin	ppm	ASTM D5185(m)		0	<1	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	243	10	47	---
Barium	ppm	ASTM D5185(m)	0	1	<1	---
Molybdenum	ppm	ASTM D5185(m)		<1	<1	---
Manganese	ppm	ASTM D5185(m)		2	1	---
Magnesium	ppm	ASTM D5185(m)	0	1	1	---
Calcium	ppm	ASTM D5185(m)	0	20	28	---
Phosphorus	ppm	ASTM D5185(m)	988	639	645	---
Zinc	ppm	ASTM D5185(m)	0	16	12	---
Sulfur	ppm	ASTM D5185(m)	24530	21250	20263	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

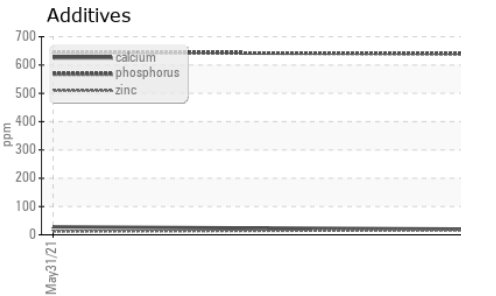
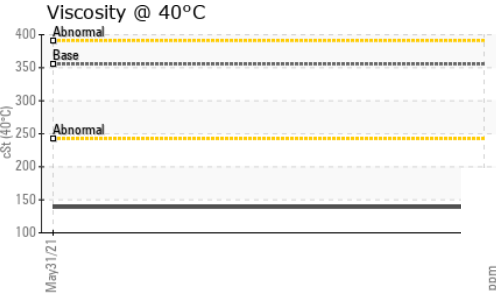
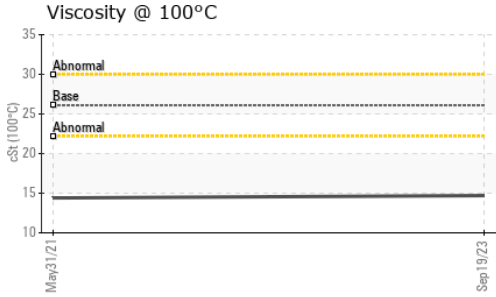
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	5	---
Sodium	ppm	ASTM D5185(m)		<1	1	---
Potassium	ppm	ASTM D5185(m)	>20	0	3	---

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	VLITE	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	---
Free Water	scalar	Visual*		NEG	NEG	---

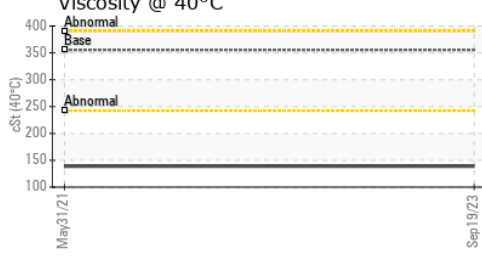
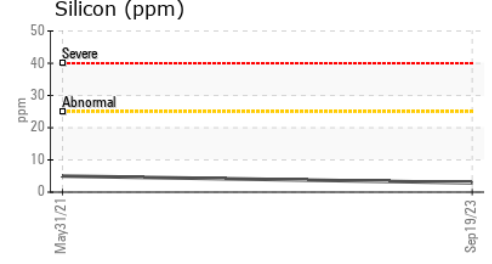
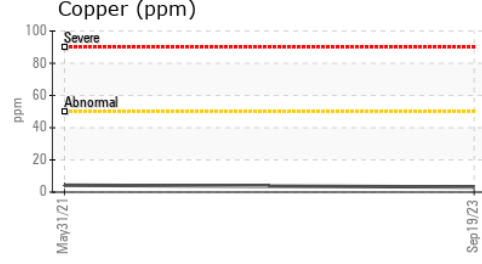
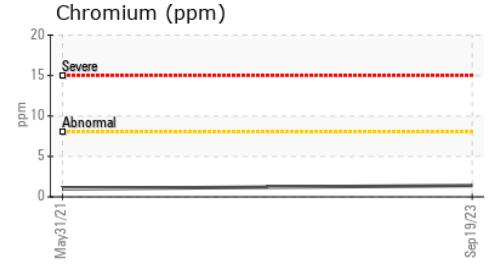
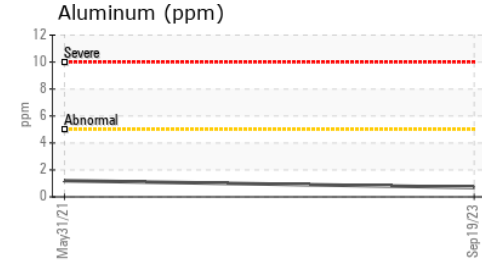
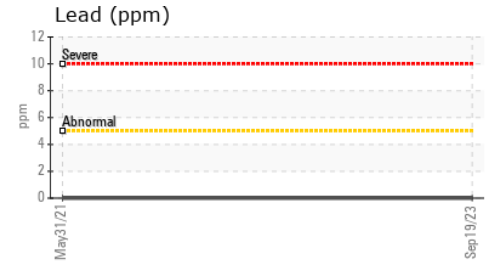
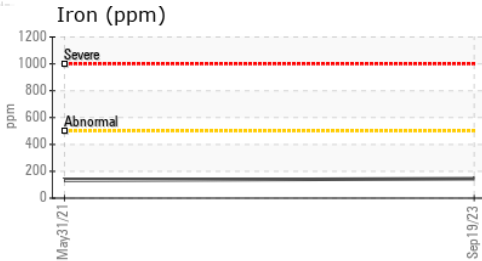
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	139	139	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	14.7	14.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	105	101	---

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. : PC0075061 **Received** : 22 Sep 2023
Lab Number : 02584729 **Diagnosed** : 22 Sep 2023
Unique Number : 5645794 **Diagnostician** : Wes Davis
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.