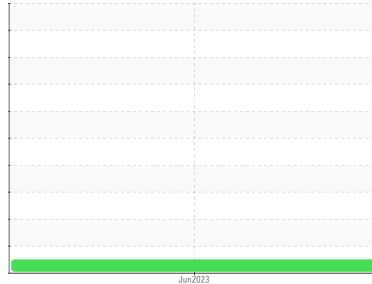




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



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

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	history 1	history 2
Sample Number	Client Info	PC0050696	---	---
Sample Date	Client Info	04 Jun 2023	---	---
Machine Age	hrs Client Info	9532	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185(m)	>500	202	---	---
Chromium ppm ASTM D5185(m)	>8	2	---	---
Nickel ppm ASTM D5185(m)	>5	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>5	2	---	---
Lead ppm ASTM D5185(m)	>5	1	---	---
Copper ppm ASTM D5185(m)	>50	45	---	---
Tin ppm ASTM D5185(m)		0	---	---
Antimony ppm ASTM D5185(m)	>5	0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185(m)	243	45	---	---
Barium ppm ASTM D5185(m)	0	12	---	---
Molybdenum ppm ASTM D5185(m)		<1	---	---
Manganese ppm ASTM D5185(m)		4	---	---
Magnesium ppm ASTM D5185(m)	0	3	---	---
Calcium ppm ASTM D5185(m)	0	11	---	---
Phosphorus ppm ASTM D5185(m)	988	711	---	---
Zinc ppm ASTM D5185(m)	0	41	---	---
Sulfur ppm ASTM D5185(m)	24530	21563	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

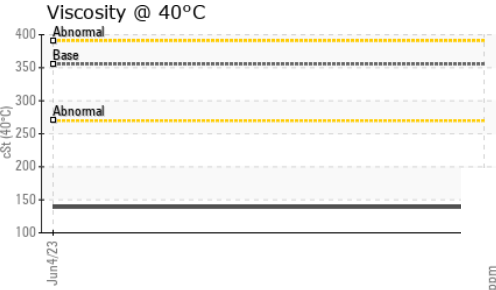
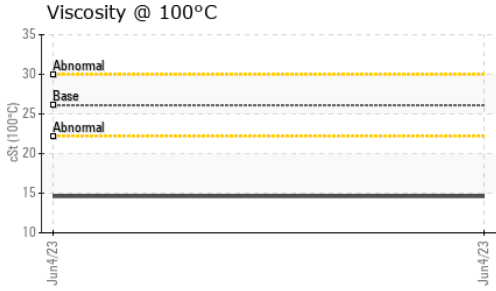
CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>25	3	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---

VISUAL

method	limit/base	current	history 1	history 2
White Metal scalar Visual*	NONE	VLITE	---	---
Yellow Metal scalar Visual*	NONE	NONE	---	---
Precipitate scalar Visual*	NONE	NONE	---	---
Silt scalar Visual*	NONE	NONE	---	---
Debris scalar Visual*	NONE	NONE	---	---
Sand/Dirt scalar Visual*	NONE	NONE	---	---
Appearance scalar Visual*	NORML	NORML	---	---
Odor scalar Visual*	NORML	NORML	---	---
Emulsified Water scalar Visual*	>0.2	NEG	---	---
Free Water scalar Visual*		NEG	---	---

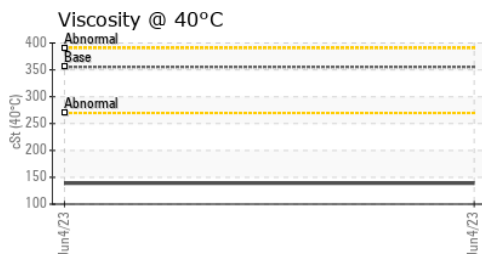
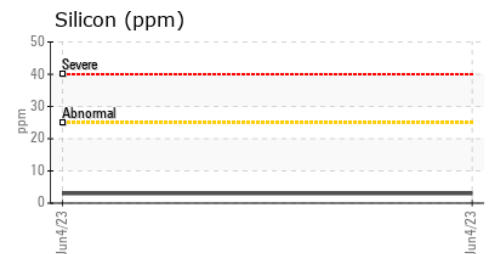
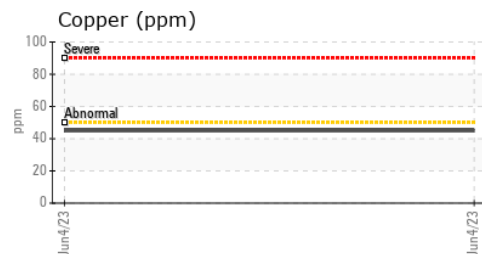
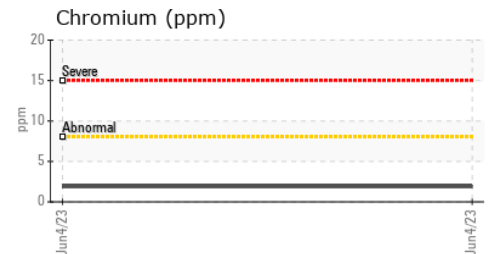
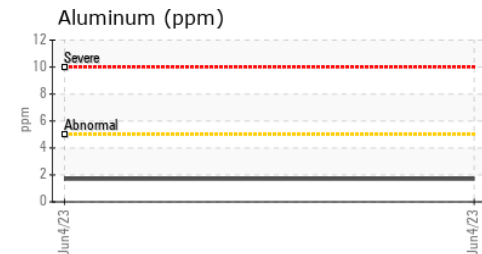
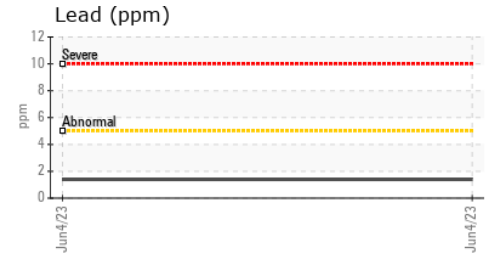
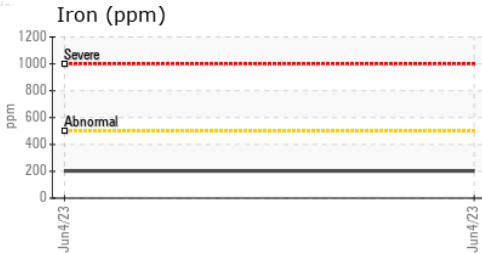
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	139	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	14.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	104	---	---

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0050696 **Received** : 04 Jul 2023
Lab Number : **02567833** **Diagnosed** : 04 Jul 2023
Unique Number : 5604879 **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.