

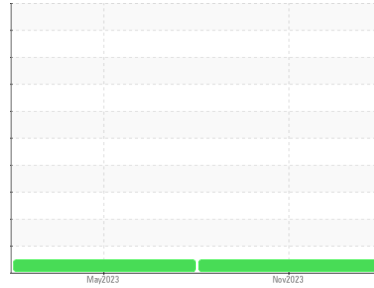
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6102
Component
Rear Left Wheel Hub
Fluid
PETRO CANADA TRAXON 80W90 (4 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. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0075101	PC0066829	---
Sample Date	Client Info	02 Nov 2023	11 May 2023	---
Machine Age	hrs Client Info	3868	2662	---
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	144	39	---
Chromium ppm	ASTM D5185(m) >8	<1	<1	---
Nickel ppm	ASTM D5185(m) >5	<1	0	---
Titanium ppm	ASTM D5185(m)	0	0	---
Silver ppm	ASTM D5185(m)	<1	0	---
Aluminum ppm	ASTM D5185(m) >5	<1	<1	---
Lead ppm	ASTM D5185(m) >5	<1	0	---
Copper ppm	ASTM D5185(m) >50	8	6	---
Tin ppm	ASTM D5185(m)	0	0	---
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	6	33	---
Barium ppm	ASTM D5185(m) 1	4	18	---
Molybdenum ppm	ASTM D5185(m)	0	<1	---
Manganese ppm	ASTM D5185(m)	1	<1	---
Magnesium ppm	ASTM D5185(m) 2	<1	3	---
Calcium ppm	ASTM D5185(m) 6	25	13	---
Phosphorus ppm	ASTM D5185(m) 987	634	865	---
Zinc ppm	ASTM D5185(m) 1	22	16	---
Sulfur ppm	ASTM D5185(m) 21530	22389	22054	---
Lithium ppm	ASTM D5185(m)	<1	<1	---

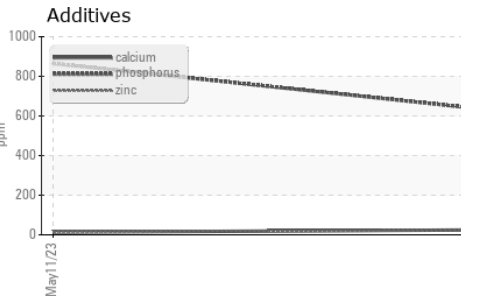
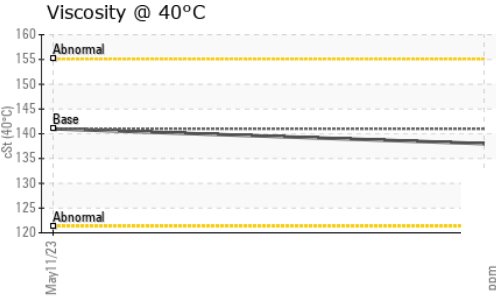
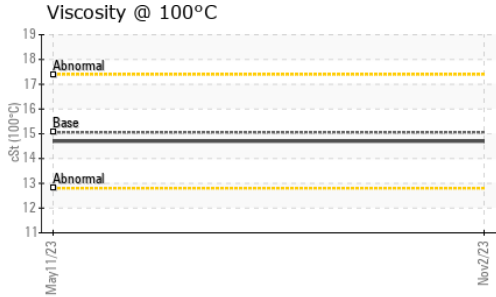
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >25	3	2	---
Sodium ppm	ASTM D5185(m)	2	<1	---
Potassium ppm	ASTM D5185(m) >20	<1	<1	---

VISUAL

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

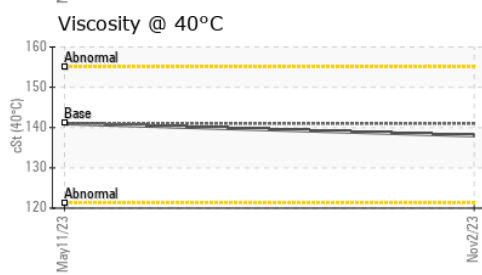
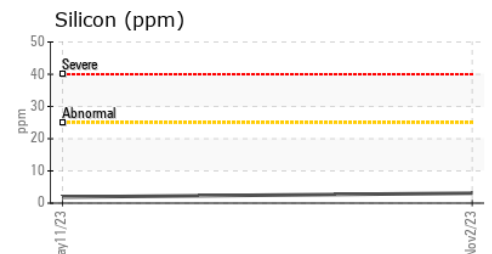
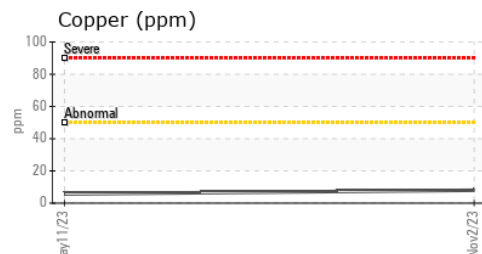
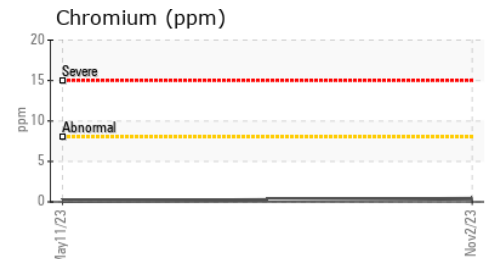
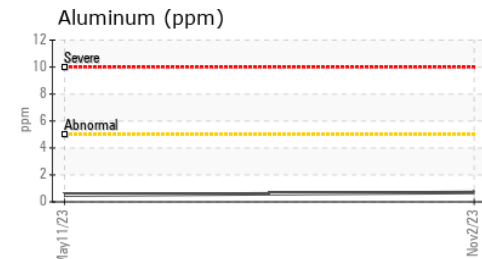
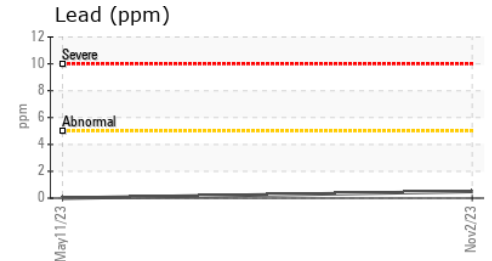
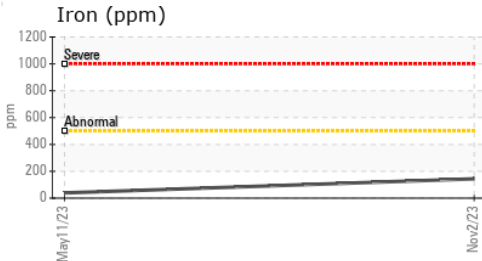
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	138	141	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.7	14.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	108	106	103	---

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. : PC0075101 **Received** : 14 Nov 2023
Lab Number : 02596307 **Diagnosed** : 14 Nov 2023
Unique Number : 5681387 **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.