

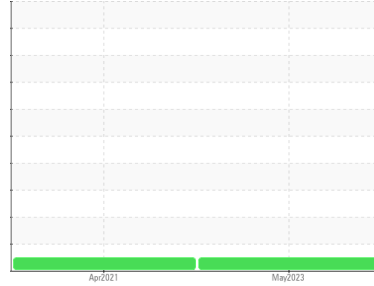
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6102
Component
Rear Differential
Fluid
PETRO CANADA TRAXON 80W90 (29 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	history 1	history 2
Sample Number	Client Info		PC0066831	PC0046615	---
Sample Date	Client Info		11 May 2023	27 Apr 2021	---
Machine Age	hrs	Client Info	2662	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	history 1	history 2
Iron	ppm	ASTM D5185(m) >500	62	381	---
Chromium	ppm	ASTM D5185(m) >10	<1	1	---
Nickel	ppm	ASTM D5185(m) >10	0	<1	---
Titanium	ppm	ASTM D5185(m)	<1	0	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Aluminum	ppm	ASTM D5185(m) >25	<1	<1	---
Lead	ppm	ASTM D5185(m) >25	<1	<1	---
Copper	ppm	ASTM D5185(m) >100	11	2	---
Tin	ppm	ASTM D5185(m) >10	0	0	---
Antimony	ppm	ASTM D5185(m) >5	0	<1	---
Vanadium	ppm	ASTM D5185(m)	0	<1	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m) 243	35	46	---
Barium	ppm	ASTM D5185(m) 1	26	0	---
Molybdenum	ppm	ASTM D5185(m)	<1	<1	---
Manganese	ppm	ASTM D5185(m)	1	4	---
Magnesium	ppm	ASTM D5185(m) 2	4	1	---
Calcium	ppm	ASTM D5185(m) 6	15	40	---
Phosphorus	ppm	ASTM D5185(m) 987	894	647	---
Zinc	ppm	ASTM D5185(m) 1	21	19	---
Sulfur	ppm	ASTM D5185(m) 21530	21876	19161	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

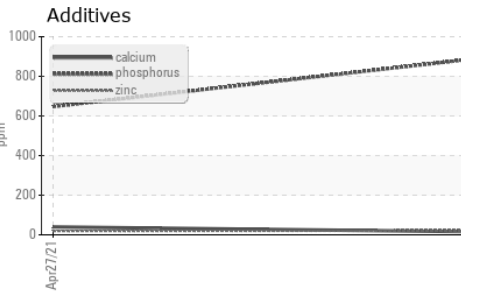
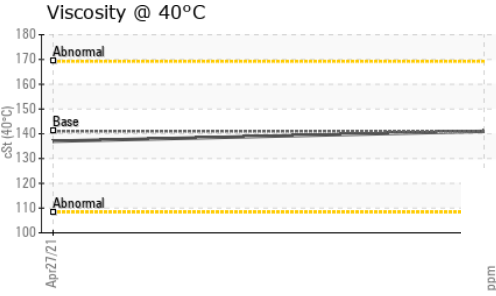
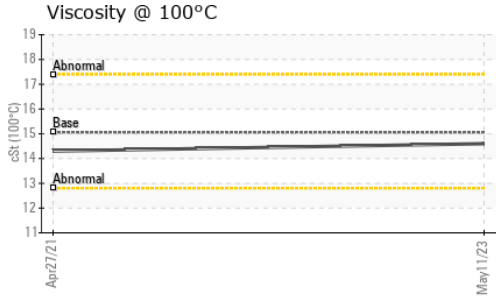
CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >75	3	4	---
Sodium	ppm	ASTM D5185(m)	<1	<1	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---

VISUAL

	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual* NONE	NONE	VLITE	---
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* >.2	NEG	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---

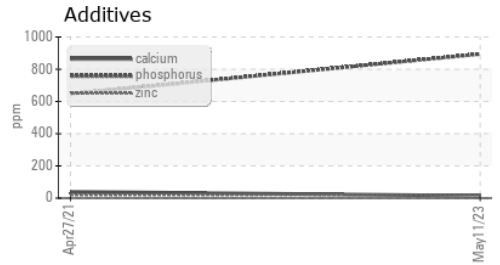
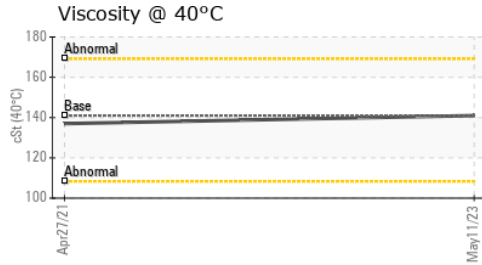
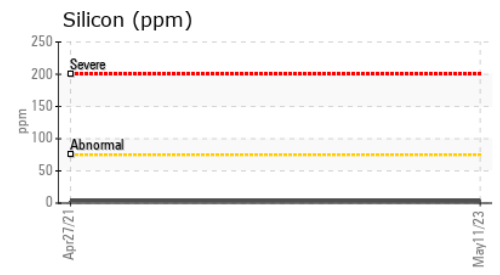
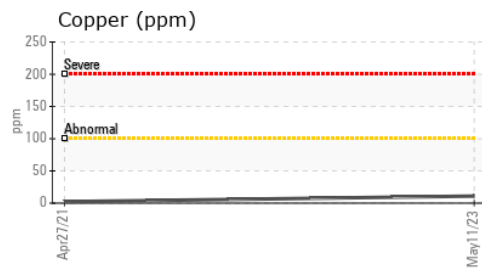
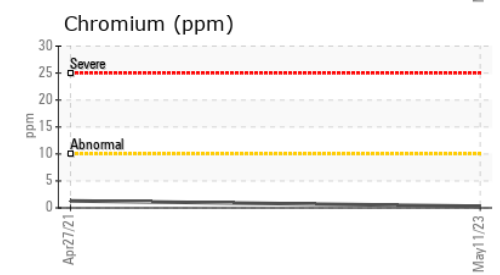
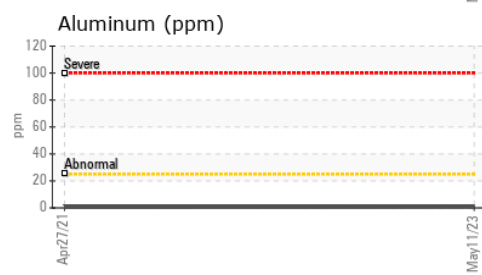
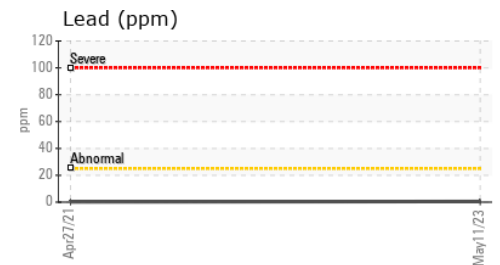
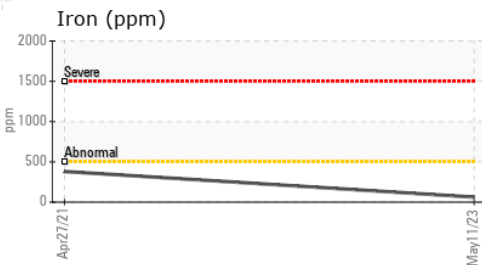
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	141	137	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.6	14.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	108	102	102	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0066831 **Received** : 04 Jul 2023
Lab Number : 02567850 **Diagnosed** : 04 Jul 2023
Unique Number : 5604896 **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.