

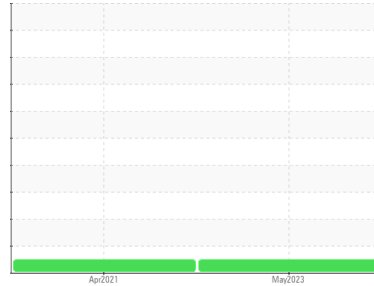
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6102
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (166 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		PC0066837	PC0046617	---
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) >20	3	2	---
Chromium	ppm	ASTM D5185(m) >10	0	0	---
Nickel	ppm	ASTM D5185(m) >10	0	0	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Aluminum	ppm	ASTM D5185(m) >10	<1	1	---
Lead	ppm	ASTM D5185(m) >10	<1	<1	---
Copper	ppm	ASTM D5185(m) >75	1	<1	---
Tin	ppm	ASTM D5185(m) >10	0	0	---
Antimony	ppm	ASTM D5185(m)	0	<1	---
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	history 1	history 2
Boron	ppm	ASTM D5185(m) 110	12	76	---
Barium	ppm	ASTM D5185(m) 0.0	0	<1	---
Molybdenum	ppm	ASTM D5185(m) 0.0	<1	2	---
Manganese	ppm	ASTM D5185(m) 1	0	<1	---
Magnesium	ppm	ASTM D5185(m) 13	11	39	---
Calcium	ppm	ASTM D5185(m) 3610	2220	3143	---
Phosphorus	ppm	ASTM D5185(m) 1192	890	984	---
Zinc	ppm	ASTM D5185(m) 1455	1013	1279	---
Sulfur	ppm	ASTM D5185(m) 2641	2414	2660	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

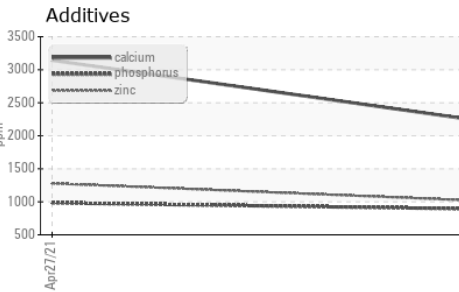
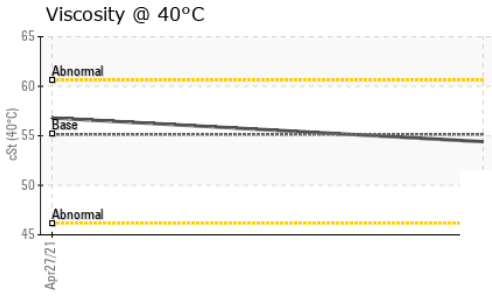
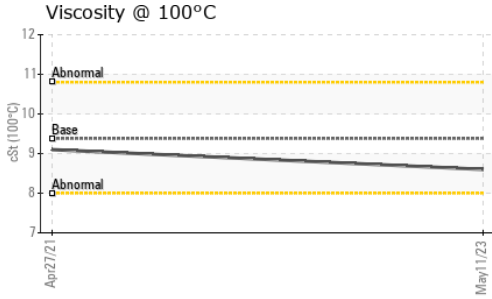
CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >20	5	9	---
Sodium	ppm	ASTM D5185(m)	<1	6	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---

VISUAL

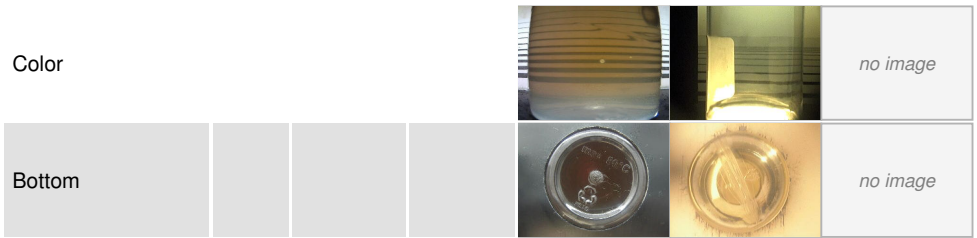
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White Metal	scalar	Visual* NONE	NONE	NONE	---
Yellow Metal	scalar	Visual* NONE	NONE	NONE	---
Precipitate	scalar	Visual* NONE	NONE	NONE	---
Silt	scalar	Visual* NONE	NONE	NONE	---
Debris	scalar	Visual* NONE	NONE	VLITE	---
Sand/Dirt	scalar	Visual* NONE	NONE	NONE	---
Appearance	scalar	Visual* NORML	NORML	NORML	---
Odor	scalar	Visual* NORML	NORML	NORML	---
Emulsified Water	scalar	Visual* >0.1	NEG	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---

OIL ANALYSIS REPORT

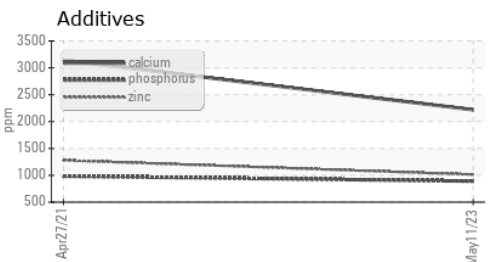
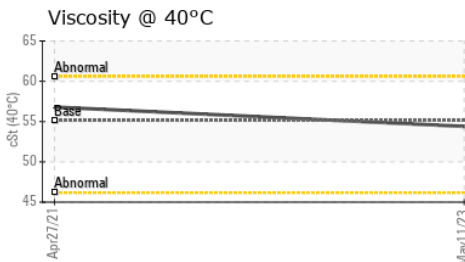
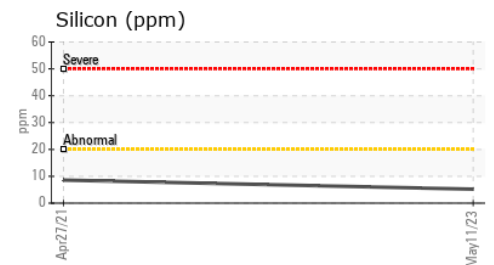
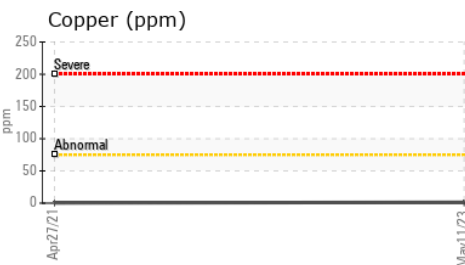
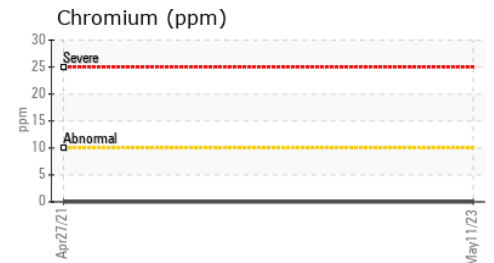
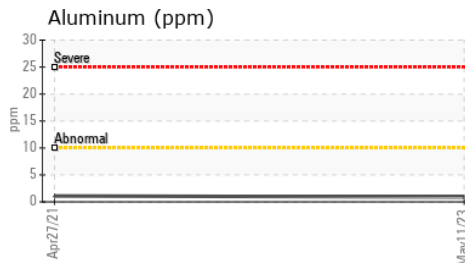
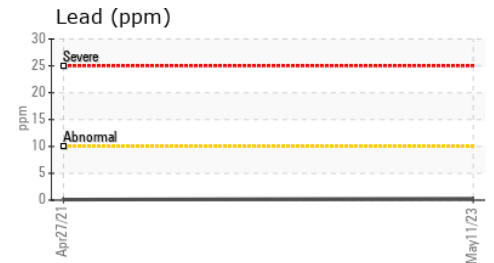
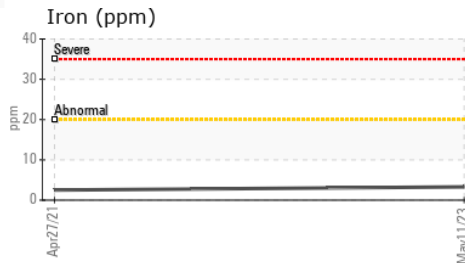


FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	54.4	56.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	8.6	9.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	153	133	139	---

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0066837 **Received** : 04 Jul 2023
Lab Number : 02567818 **Diagnosed** : 05 Jul 2023
Unique Number : 5604864 **Diagnostician** : Kevin Marson
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.