



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(360536)

Machine Id
LIEBHERR LR636 022632-1725

Component
Right Final Drive

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290986	LH0247530	---
Sample Date		Client Info		30 May 2024	10 Jun 2023	---
Machine Age	hrs	Client Info		2563	1723	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	86	▲ 2582	---
Chromium	ppm	ASTM D5185(m)	>10	<1	▲ 30	---
Nickel	ppm	ASTM D5185(m)	>10	<1	▲ 36	---
Titanium	ppm	ASTM D5185(m)		<1	▲ 68	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	3	● 1024	---
Lead	ppm	ASTM D5185(m)	>25	0	3	---
Copper	ppm	ASTM D5185(m)	>50	20	4	---
Tin	ppm	ASTM D5185(m)	>10	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	7	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	---

CONTAMINATION

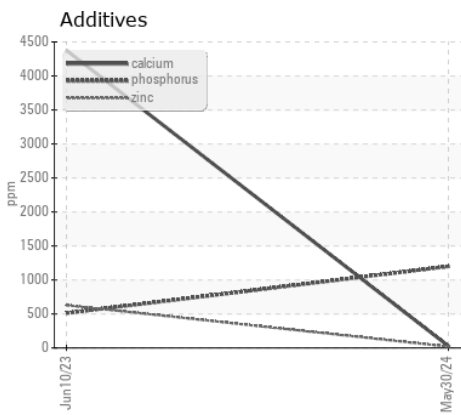
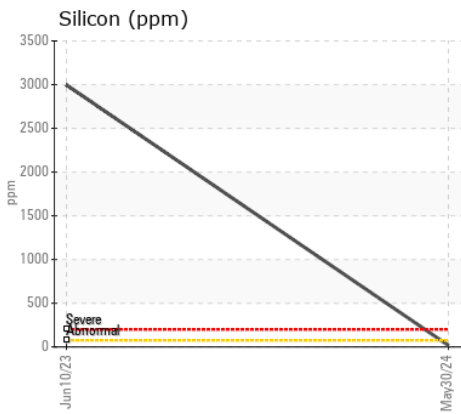
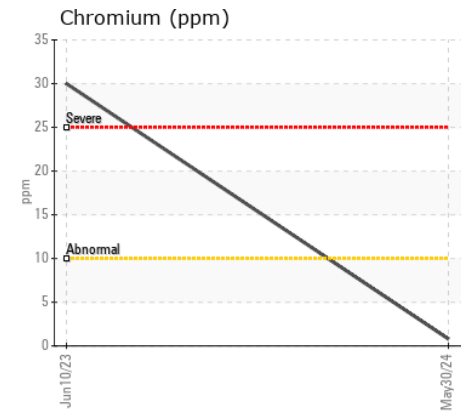
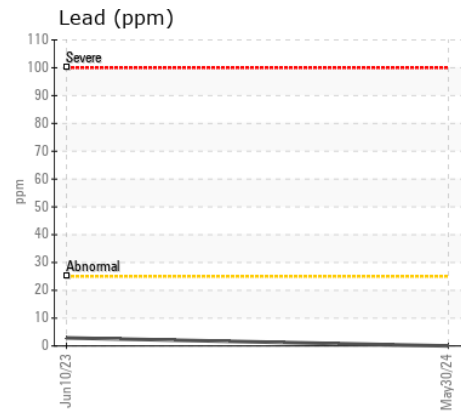
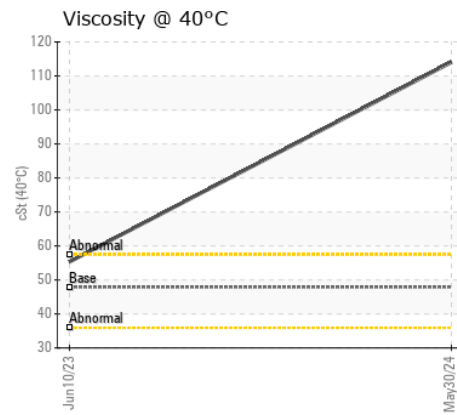
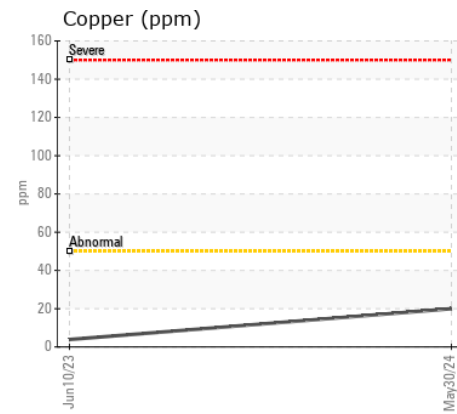
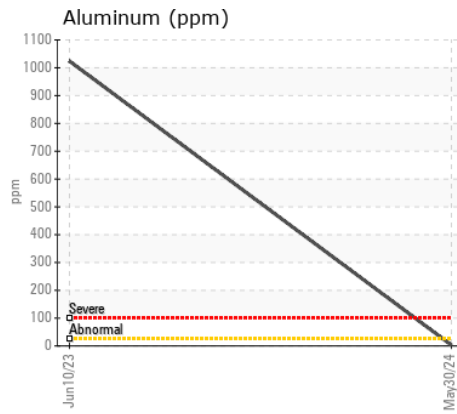
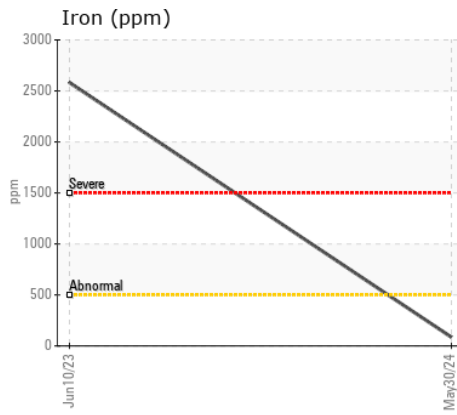
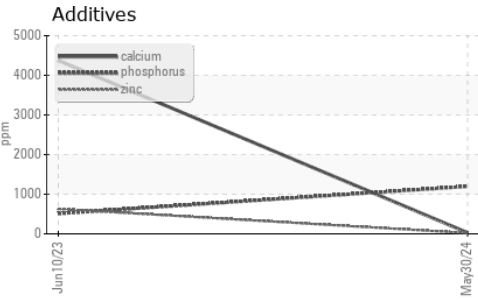
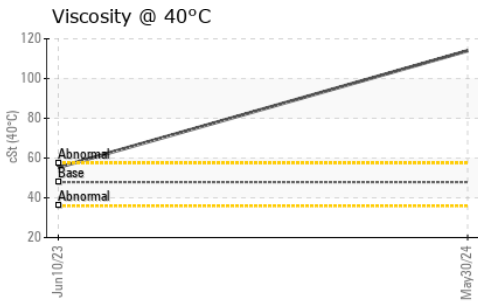
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	17	▲ 2997	---
Potassium	ppm	ASTM D5185(m)	>20	2	389	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
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	▲ .2%	---

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.

Sodium	ppm	ASTM D5185(m)		2	119	---
Boron	ppm	ASTM D5185(m)	0	254	8	---
Barium	ppm	ASTM D5185(m)	0	12	52	---
Molybdenum	ppm	ASTM D5185(m)	0	0	3	---
Manganese	ppm	ASTM D5185(m)	1	1	30	---
Magnesium	ppm	ASTM D5185(m)	0	4	493	---
Calcium	ppm	ASTM D5185(m)	100	28	4377	---
Phosphorus	ppm	ASTM D5185(m)	670	1198	511	---
Zinc	ppm	ASTM D5185(m)	850	19	628	---
Sulfur	ppm	ASTM D5185(m)	1600	21727	6901	---
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	114	55.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0290986
Lab Number : 02639228
Unique Number : 5788390
Test Package : MOB 1
Received : 31 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

DC PROJECT CONSULTING MANAGEMENT
 11 DANSK COURT
 ETOBICOKE, ON
 CA M9W 5N6
 Contact: Service Manager

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.

T:
F: