



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 150728-1216
Component
Transmission (Manual)
Fluid
PETRO CANADA DURON UHP E6 10W40 (--- 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		LH0271869	LH0242070	---
Sample Date		Client Info		09 Feb 2024	21 Nov 2023	---
Machine Age	hrs	Client Info		1066	500	---
Oil Age	hrs	Client Info		0	500	---
Filter Age	hrs	Client Info		0	500	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	25	25	---
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>7	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	3	3	---
Lead	ppm	ASTM D5185(m)	>45	1	1	---
Copper	ppm	ASTM D5185(m)	>225	37	35	---
Tin	ppm	ASTM D5185(m)	>10	1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

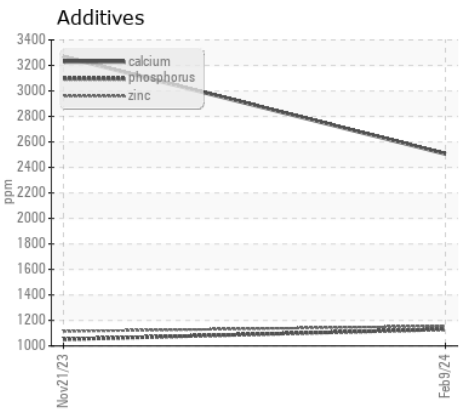
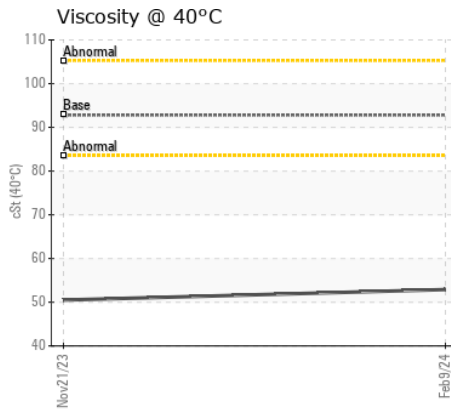
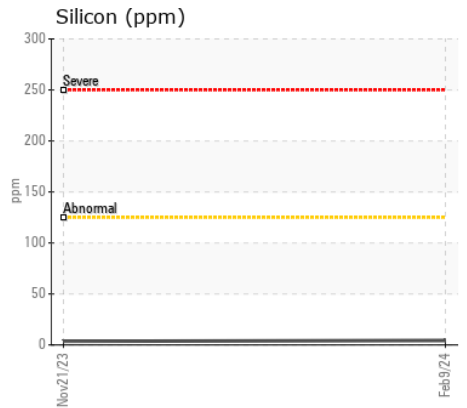
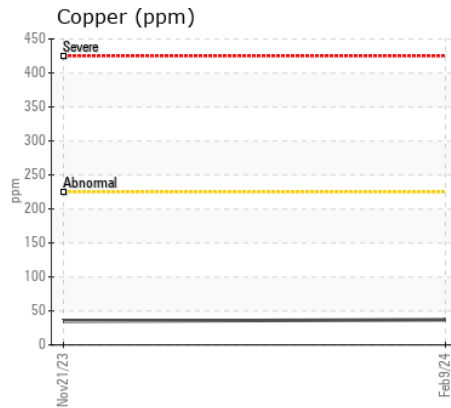
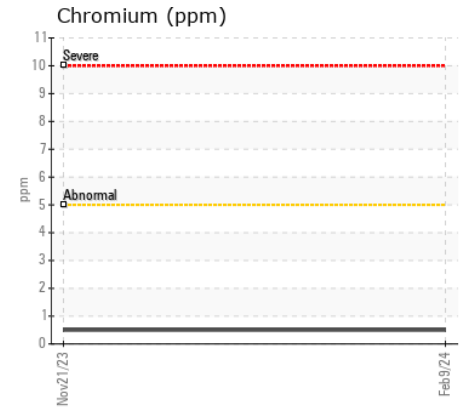
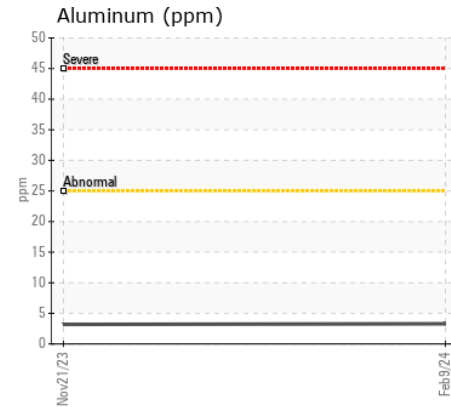
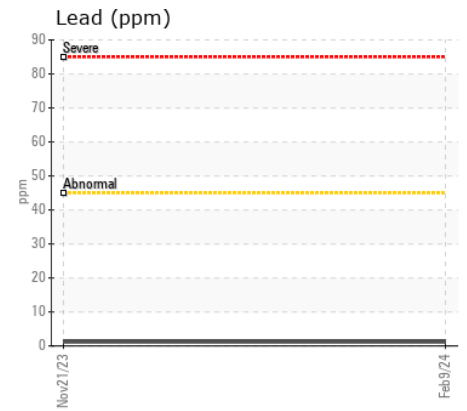
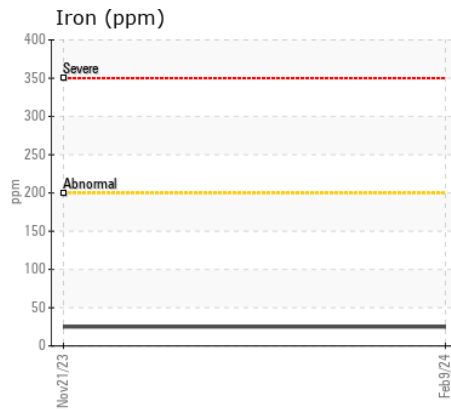
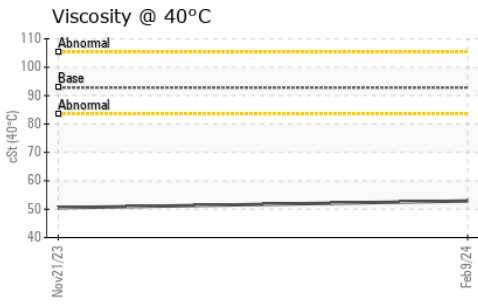
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	4	4	---
Potassium	ppm	ASTM D5185(m)	>20	3	3	---
Water		WC Method	>0.1	NEG	NEG	---
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*	>0.1	NEG	NEG	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of fluid.
Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		22	32	---
Boron	ppm	ASTM D5185(m)	0	4	4	---
Barium	ppm	ASTM D5185(m)	0	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	23	0	---
Manganese	ppm	ASTM D5185(m)	0	47	58	---
Magnesium	ppm	ASTM D5185(m)	80	377	8	---
Calcium	ppm	ASTM D5185(m)	2400	2506	3268	---
Phosphorus	ppm	ASTM D5185(m)	750	1130	1052	---
Zinc	ppm	ASTM D5185(m)	840	1156	1114	---
Sulfur	ppm	ASTM D5185(m)	2130	6498	7634	---
Visc @ 40°C	cSt	ASTM D7279(m)	92.8	52.9	50.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0271869 **Received** : 26 Feb 2024
Lab Number : 02618118 **Tested** : 26 Feb 2024
Unique Number : 5735228 **Diagnosed** : 26 Feb 2024 - Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

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.

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