



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 150728-1216
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP E6 10W40 (32 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0271865	LH0271862	---
Sample Date		Client Info		09 Feb 2024	06 Nov 2023	---
Machine Age	hrs	Client Info		1066	500	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	MARGINAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>66	4	8	---
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>8	2	3	---
Lead	ppm	ASTM D5185(m)	>10	8	8	---
Copper	ppm	ASTM D5185(m)	>74	319	262	---
Tin	ppm	ASTM D5185(m)	>4	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

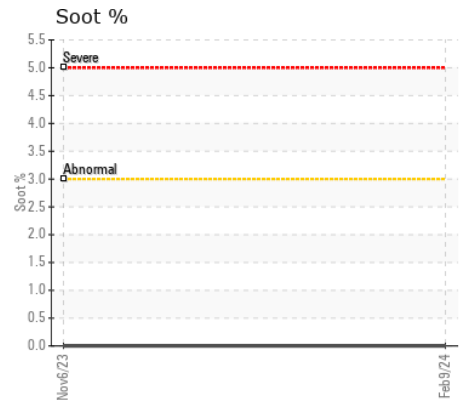
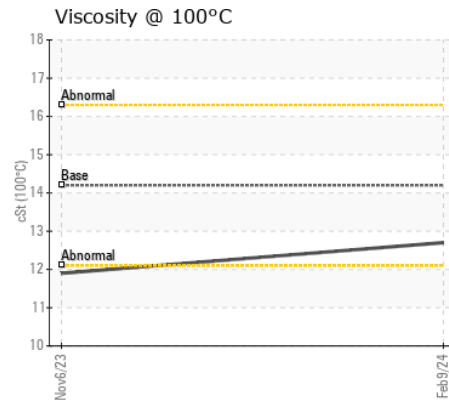
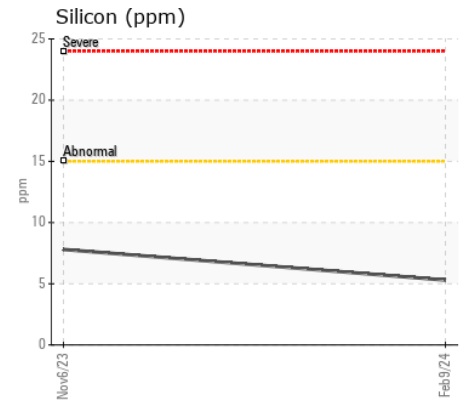
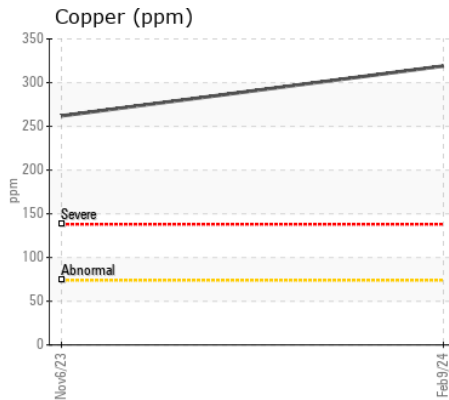
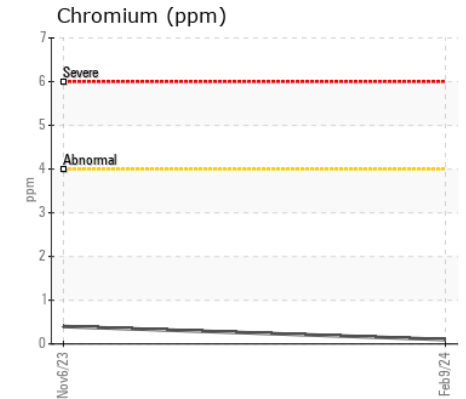
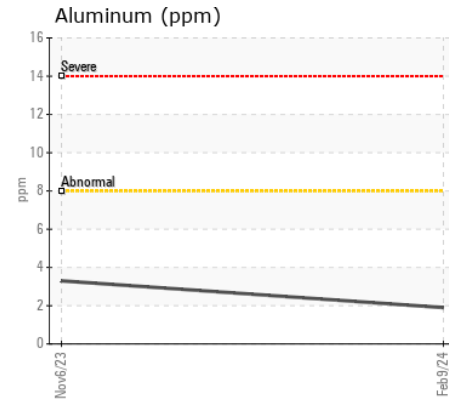
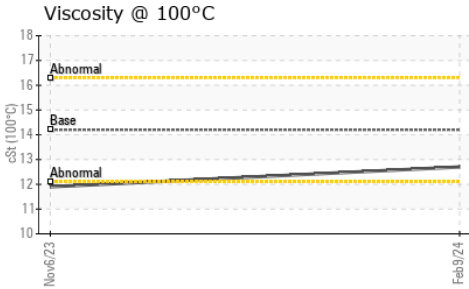
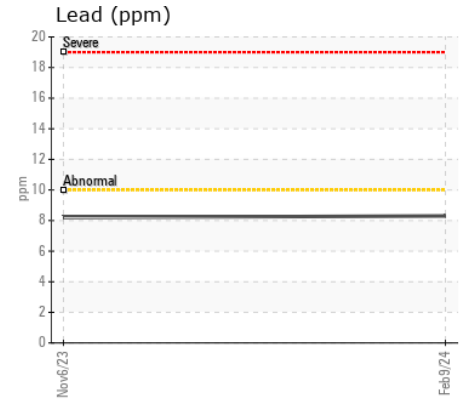
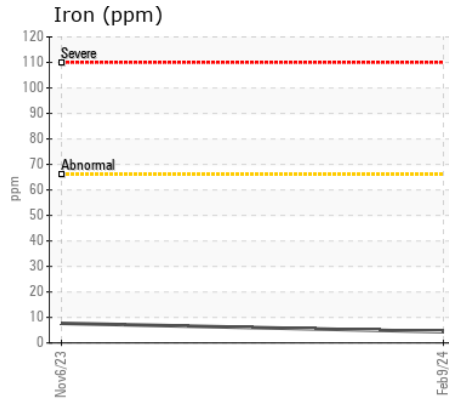
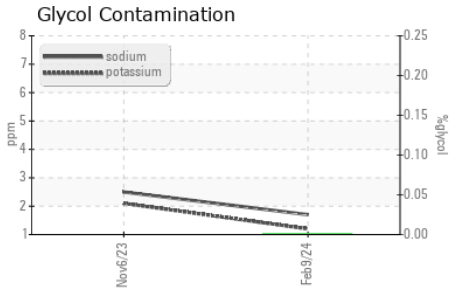
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	8	---
Potassium	ppm	ASTM D5185(m)	>20	1	2	---
Fuel		WC Method	>5	<1.0	▲ 2.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	ASTM D7922*		0.0	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.8	11.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	38.5	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)	0	4	68	---
Barium	ppm	ASTM D5185(m)	0	4	39	---
Molybdenum	ppm	ASTM D5185(m)	0	57	46	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	80	948	915	---
Calcium	ppm	ASTM D5185(m)	2400	1055	1296	---
Phosphorus	ppm	ASTM D5185(m)	750	976	740	---
Zinc	ppm	ASTM D5185(m)	840	1167	869	---
Sulfur	ppm	ASTM D5185(m)	2130	2355	1874	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	48.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	12.7	11.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0271865 **Received** : 26 Feb 2024
Lab Number : 02617942 **Tested** : 26 Feb 2024
Unique Number : 5735052 **Diagnosed** : 26 Feb 2024 - Wes Davis
Test Package : MOBCE (Additional Tests: Glycol)

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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