



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH40M 156305-1215
Component
Front Right Wheel Hub
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH0278471	---
Sample Date		Client Info		09 May 2024	20 Feb 2024	---
Machine Age	hrs	Client Info		1010	536	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	None	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	30	44	---
Chromium	ppm	ASTM D5185(m)	>4	0	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	0	---
Titanium	ppm	ASTM D5185(m)	>4	0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	2	2	---
Lead	ppm	ASTM D5185(m)	>4	<1	1	---
Copper	ppm	ASTM D5185(m)	>60	37	37	---
Tin	ppm	ASTM D5185(m)	>4	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	---

CONTAMINATION

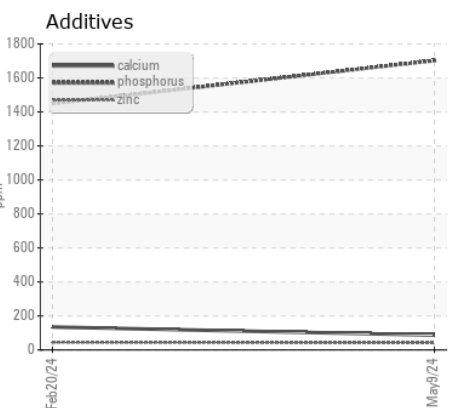
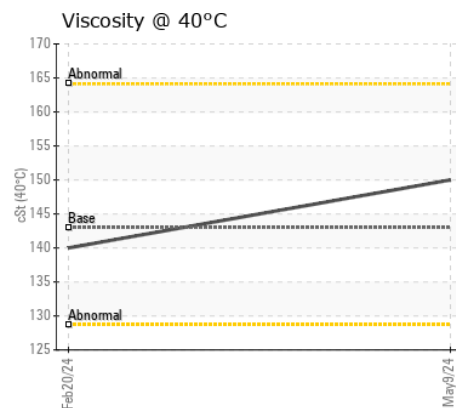
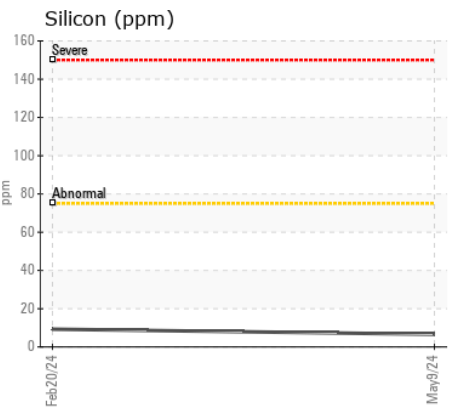
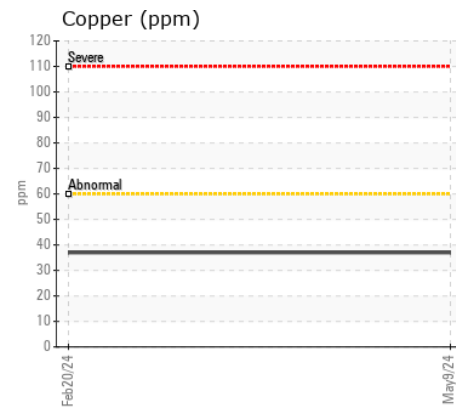
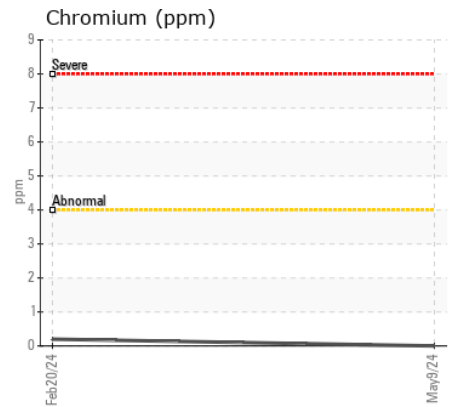
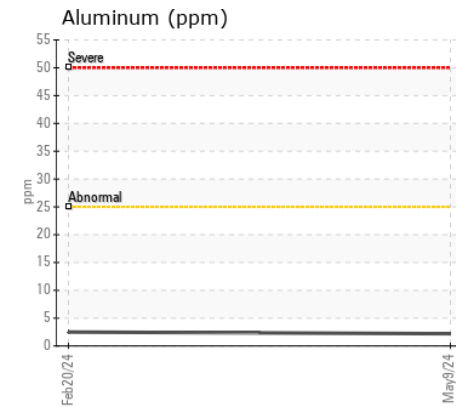
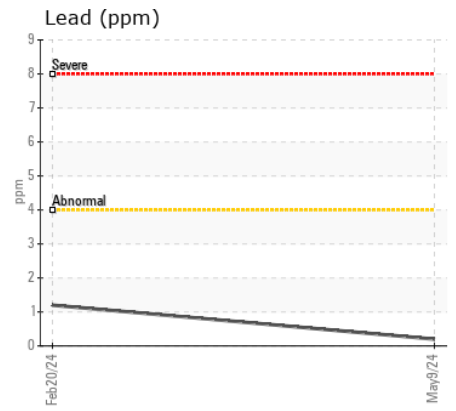
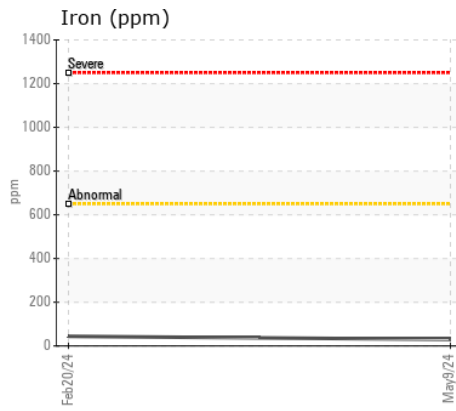
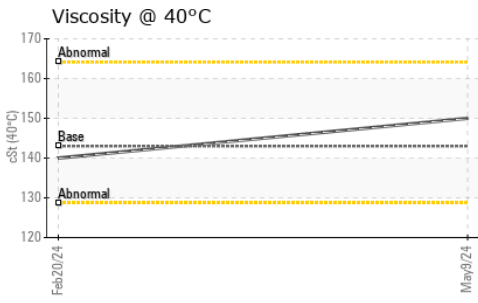
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	7	9	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
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	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>170	4	5	---
Boron	ppm	ASTM D5185(m)	400	17	4	---
Barium	ppm	ASTM D5185(m)	200	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	12	0	<1	---
Manganese	ppm	ASTM D5185(m)		3	3	---
Magnesium	ppm	ASTM D5185(m)	12	2	2	---
Calcium	ppm	ASTM D5185(m)	150	87	135	---
Phosphorus	ppm	ASTM D5185(m)	1650	1702	1449	---
Zinc	ppm	ASTM D5185(m)	125	41	45	---
Sulfur	ppm	ASTM D5185(m)	22500	20212	18107	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	150	140	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 14 May 2024
Lab Number : 02635404 **Tested** : 14 May 2024
Unique Number : 5776557 **Diagnosed** : 14 May 2024 - Wes Davis
Test Package : MOB 1

Urban Mine
 72 Rothwell Rd.
 Winnipeg, MB
 CA R3P 2H7
 Contact: SERVICE

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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 F: