



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR LH40M 156305-1215**  
Component  
**Transmission (Manual)**  
Fluid  
**TDTO FLUID SAE 20 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH0278469	---
Sample Date		Client Info		<b>09 May 2024</b>	20 Feb 2024	---
Machine Age	hrs	Client Info		<b>1010</b>	536	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>None</b>	None	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>8</b>	16	---
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	3	---
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>225	<b>8</b>	11	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

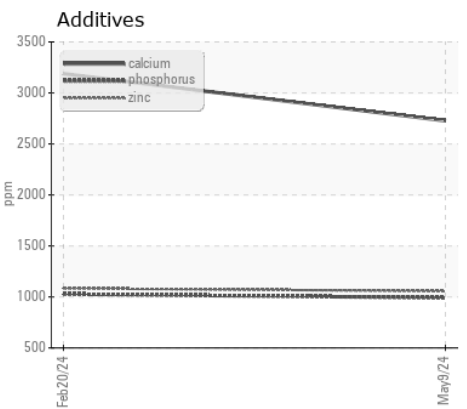
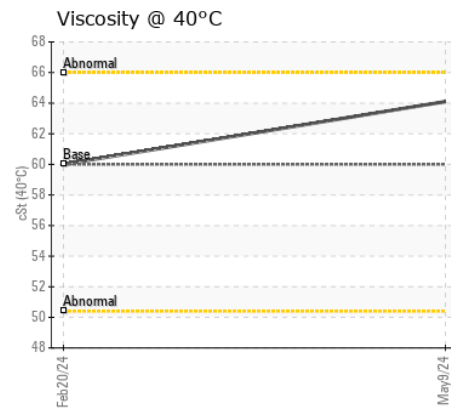
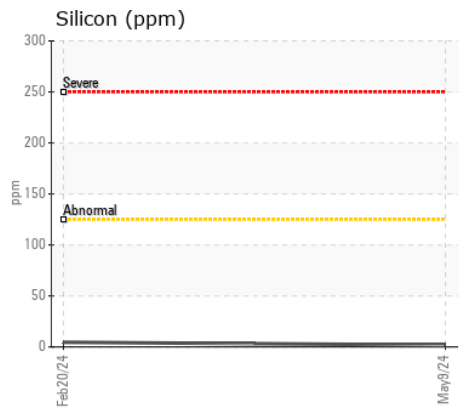
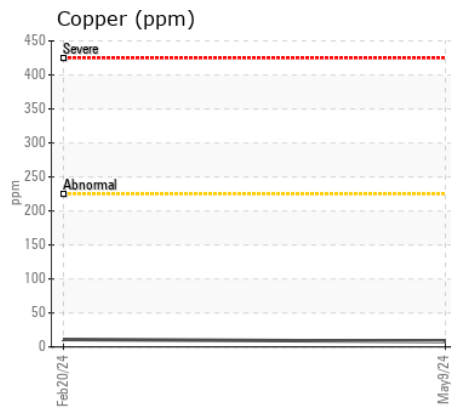
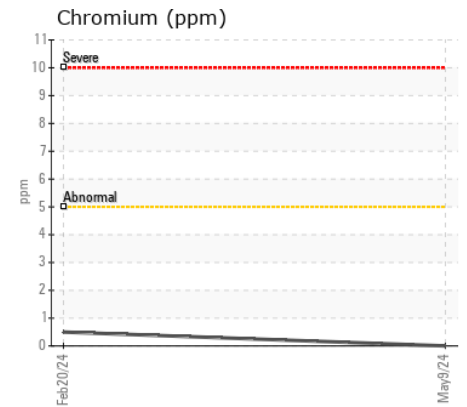
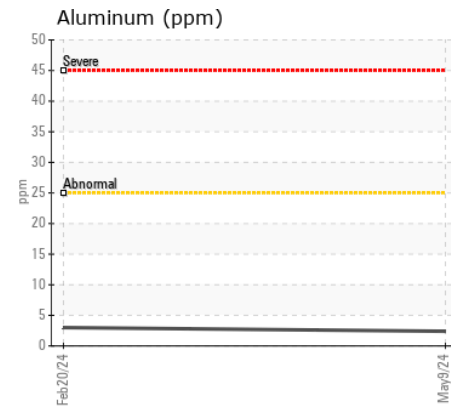
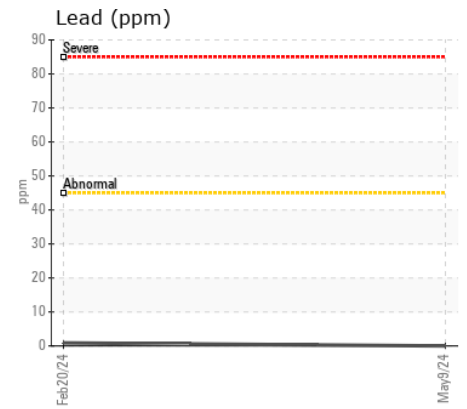
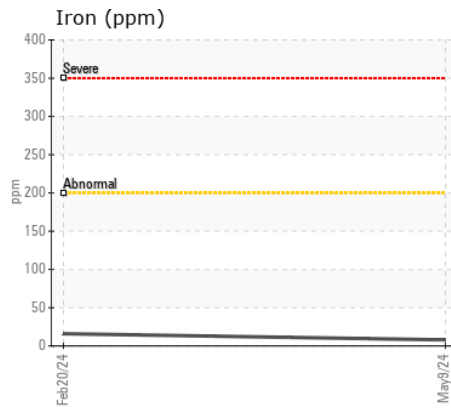
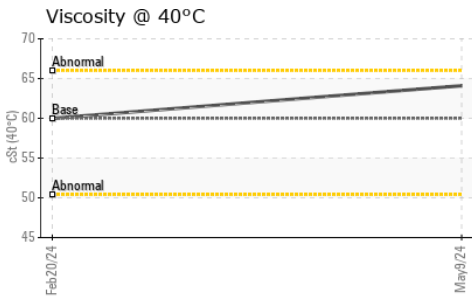
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	<b>2</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>28</b>	44	---
Boron	ppm	ASTM D5185(m)	37	<b>35</b>	3	---
Barium	ppm	ASTM D5185(m)	7	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>9</b>	11	---
Magnesium	ppm	ASTM D5185(m)	40	<b>8</b>	9	---
Calcium	ppm	ASTM D5185(m)	2650	<b>2727</b>	3189	---
Phosphorus	ppm	ASTM D5185(m)	1050	<b>991</b>	1028	---
Zinc	ppm	ASTM D5185(m)	1075	<b>1056</b>	1084	---
Sulfur	ppm	ASTM D5185(m)	5750	<b>5183</b>	6640	---
Visc @ 40°C	cSt	ASTM D7279(m)	60	<b>64.1</b>	60.0	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH  
**Lab Number** : 02635400  
**Unique Number** : 5776553  
**Test Package** : MOB 1  
**Received** : 14 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Wes Davis

**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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