



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH22M 158368-1250**  
Component  
**Front Right Wheel Hub**  
Fluid  
**SAE 75W90 (--- 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		<b>LH0284690</b>	LH0284723	---
Sample Date		Client Info		<b>25 Jun 2024</b>	10 Apr 2024	---
Machine Age	hrs	Client Info		<b>1070</b>	500	---
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>	N/A	---
Filter Changed		Client Info		<b>None</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	<b>25</b>	47	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>60	<b>10</b>	11	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

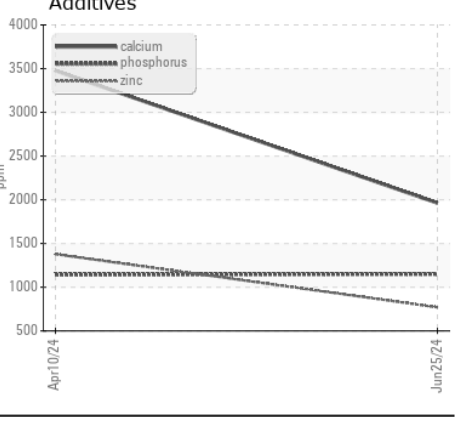
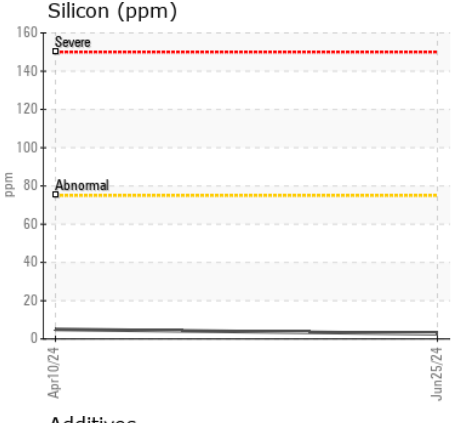
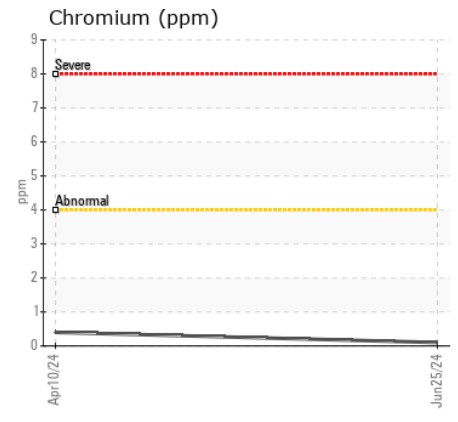
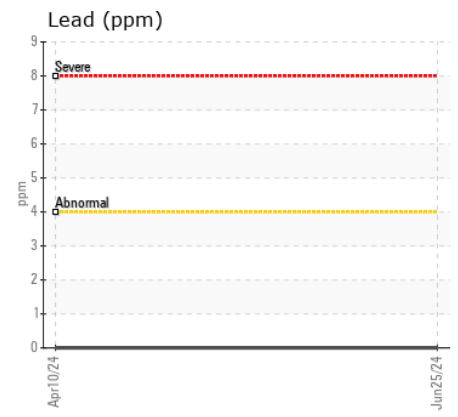
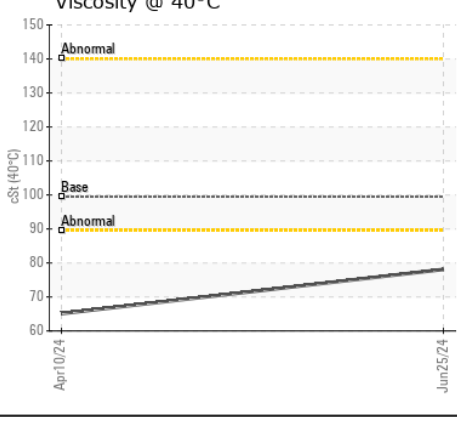
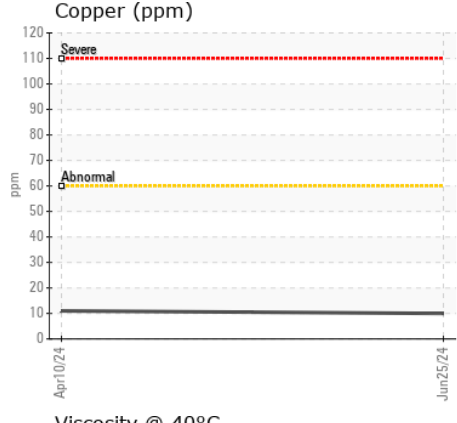
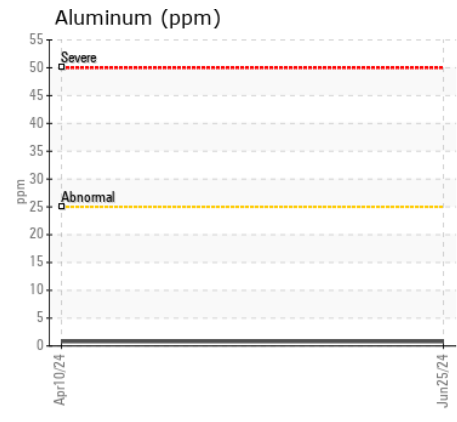
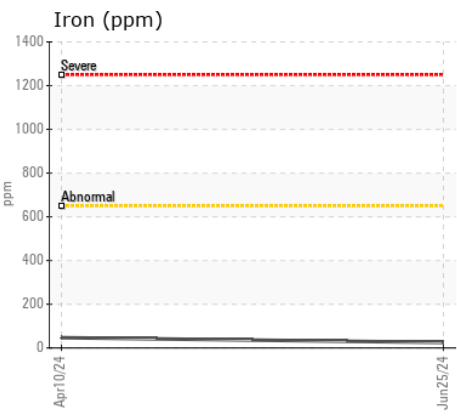
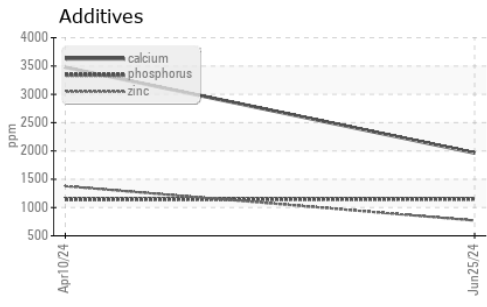
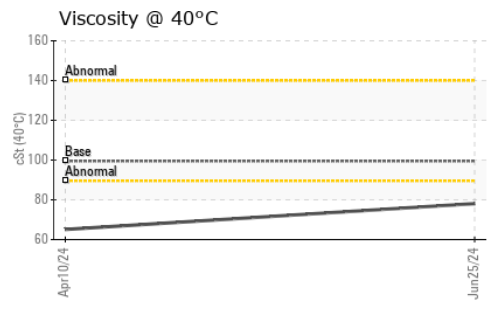
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>3</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

### 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)		<b>13</b>	15	---
Boron	ppm	ASTM D5185(m)	150	<b>151</b>	104	---
Barium	ppm	ASTM D5185(m)	5	<b>2</b>	3	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185(m)	0	<b>9</b>	10	---
Calcium	ppm	ASTM D5185(m)	20	<b>1963</b>	3477	---
Phosphorus	ppm	ASTM D5185(m)	1200	<b>1150</b>	1144	---
Zinc	ppm	ASTM D5185(m)	25	<b>770</b>	1378	---
Sulfur	ppm	ASTM D5185(m)	22000	<b>10413</b>	2851	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.5	<b>78.1</b>	65.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0284690  
**Lab Number** : 02644682  
**Unique Number** : 5802221  
**Test Package** : MOBCE

**RECEIVED** : 28 Jun 2024  
**TESTED** : 28 Jun 2024  
**DIAGNOSED** : 28 Jun 2024 - Kevin Marson  
**BELLEMARE RECYCLAGE - SABLE DES FORGES INC**  
 8750 BOUL INDUSTRIEL  
 TROIS-RIVIERES, QC  
 CA G9A 5E1  
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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.