



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH30M 139969-1253**  
Component  
**Front Right Wheel Hub**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- 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>LH0289818</b>	LH	---
Sample Date		Client Info		<b>15 May 2024</b>	19 Oct 2023	---
Machine Age	hrs	Client Info		<b>930</b>	480	---
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>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>450	<b>44</b>	16	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>75	<b>4</b>	12	---
Tin	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

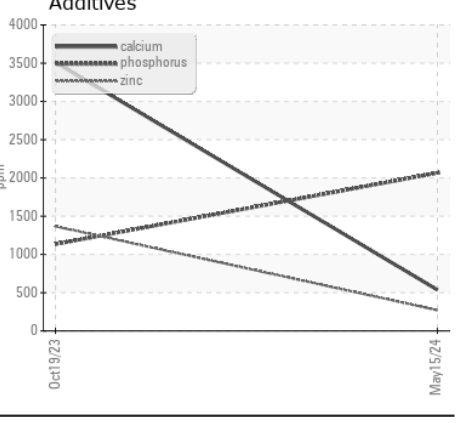
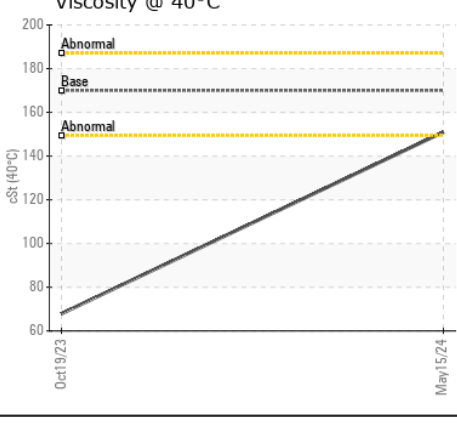
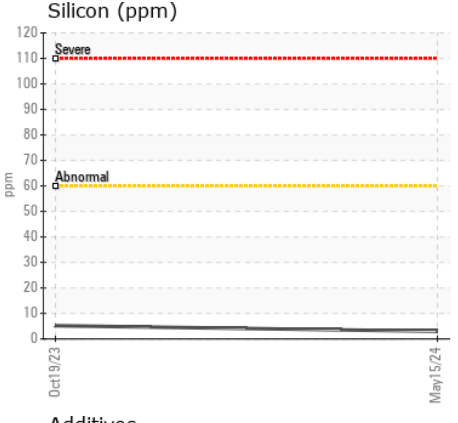
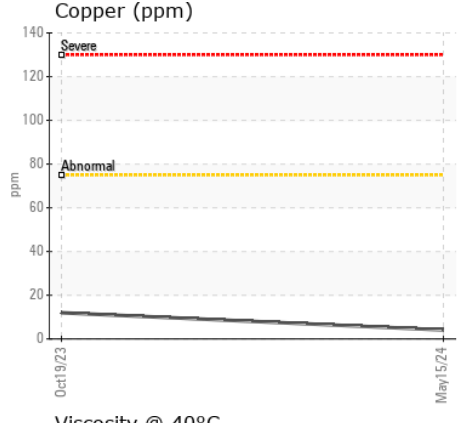
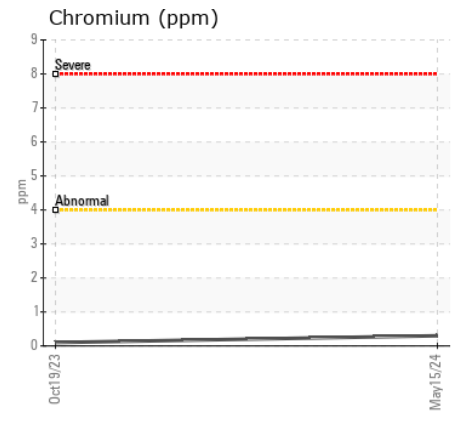
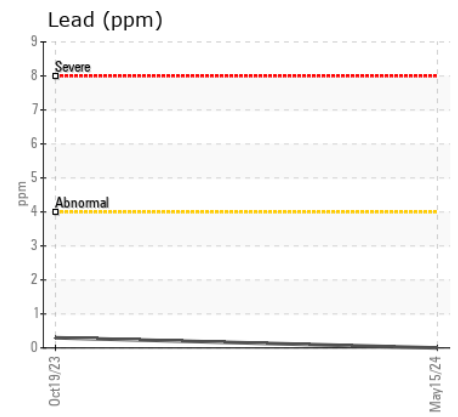
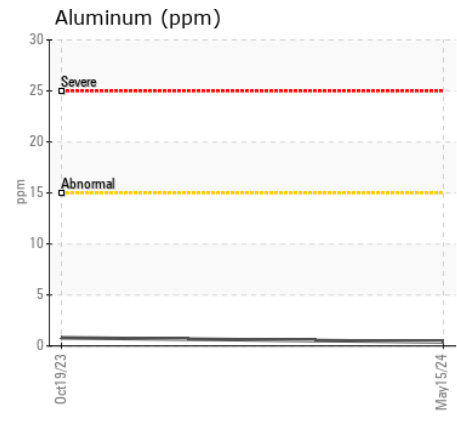
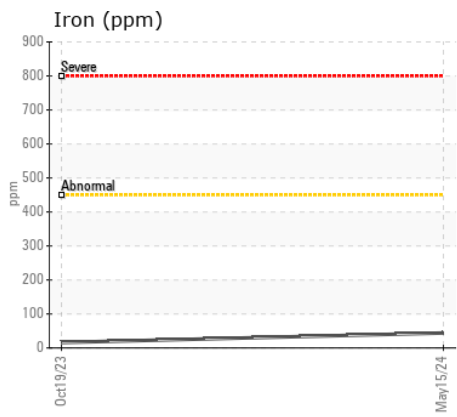
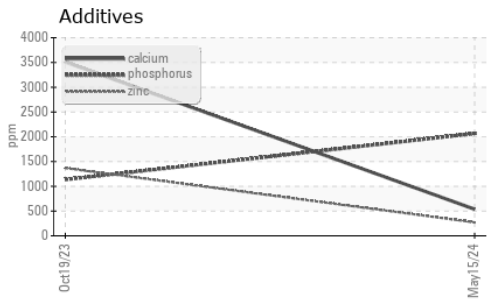
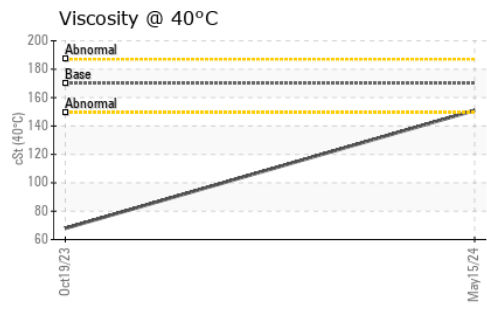
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>3</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
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>7</b>	21	---
Boron	ppm	ASTM D5185(m)	0	<b>16</b>	103	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	<1	<b>3</b>	9	---
Calcium	ppm	ASTM D5185(m)	<1	<b>537</b>	3511	---
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2066</b>	1134	---
Zinc	ppm	ASTM D5185(m)	<1	<b>271</b>	1367	---
Sulfur	ppm	ASTM D5185(m)	23468	<b>20454</b>	3057	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>151</b>	67.9	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0289818 **Received** : 21 May 2024  
**Lab Number** : 02636718 **Tested** : 21 May 2024  
**Unique Number** : 5785880 **Diagnosed** : 21 May 2024 - Kevin Marson  
**Test Package** : MOB 1

**METAUX 139 INC.**  
 86 RTE MARIE-VICTORIN  
 PIERREVILLE, QC  
 CA J0G 1J0  
 Contact: Service Manager

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: