



# 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 Left Wheel Hub**  
Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0289819</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>22</b>	17	---
Chromium	ppm	ASTM D5185(m)	>4	<b>0</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>7</b>	23	---
Tin	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

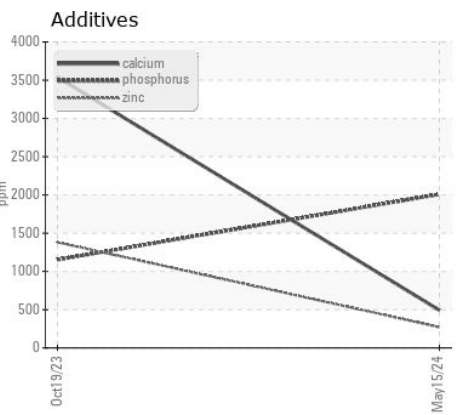
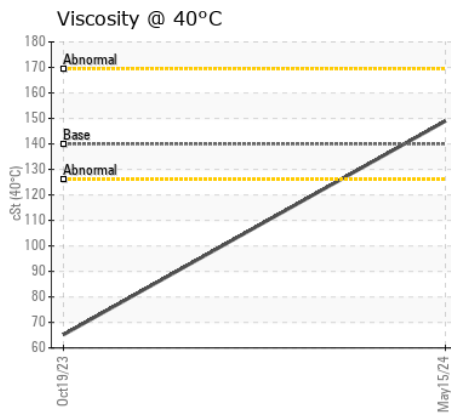
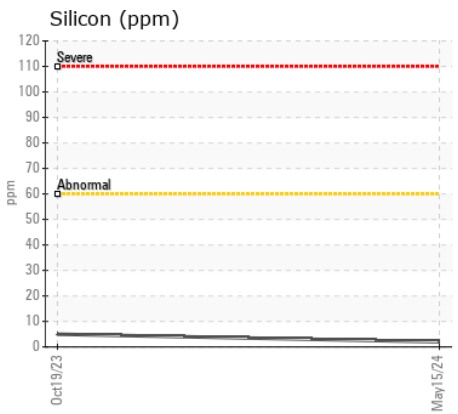
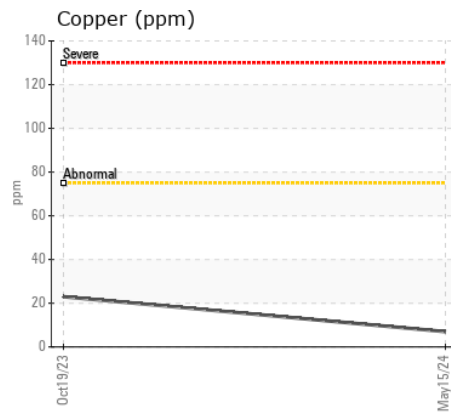
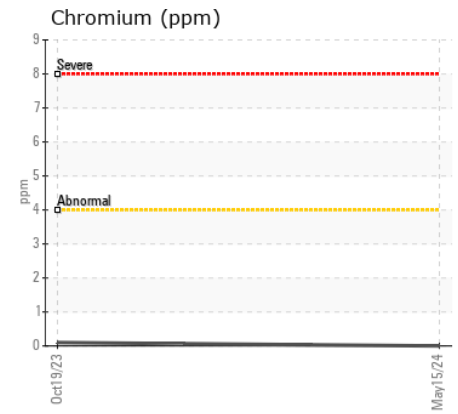
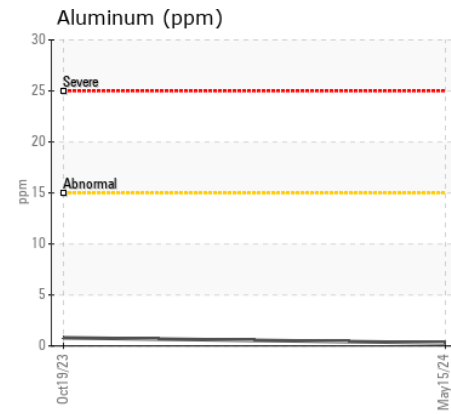
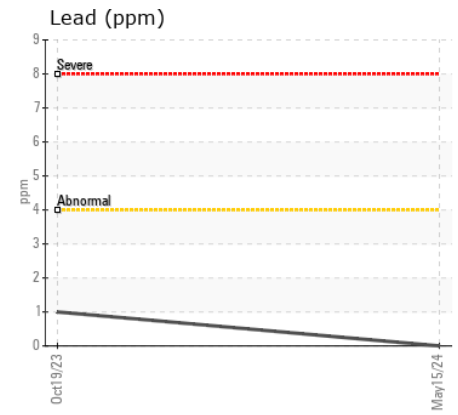
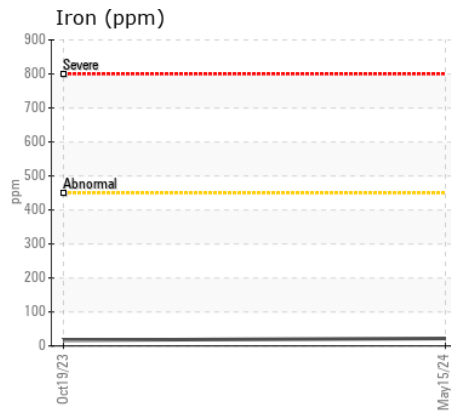
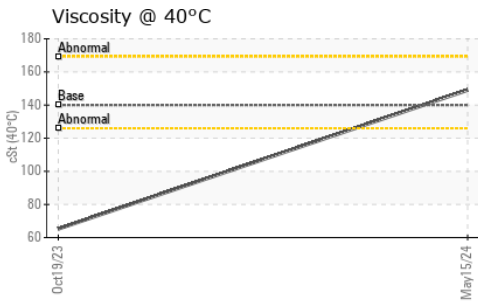
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>2</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>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>NONE</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

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

Sodium	ppm	ASTM D5185(m)		<b>9</b>	22	---
Boron	ppm	ASTM D5185(m)	150	<b>13</b>	100	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)	10	<b>2</b>	9	---
Calcium	ppm	ASTM D5185(m)	70	<b>493</b>	3540	---
Phosphorus	ppm	ASTM D5185(m)	2000	<b>2008</b>	1153	---
Zinc	ppm	ASTM D5185(m)	50	<b>271</b>	1381	---
Sulfur	ppm	ASTM D5185(m)	20000	<b>20270</b>	2889	---
Visc @ 40°C	cSt	ASTM D7279(m)	140	<b>149</b>	65.2	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0289819 **Received** : 21 May 2024  
**Lab Number** : 02636724 **Tested** : 21 May 2024  
**Unique Number** : 5785886 **Diagnosed** : 21 May 2024 - Wes Davis  
**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: