



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR LH60M 146313-1217**  
Component  
**Front Right Wheel Hub**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 75W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

### WEAR

All component wear rates are normal.

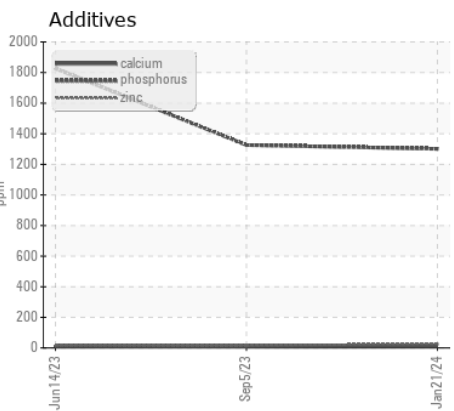
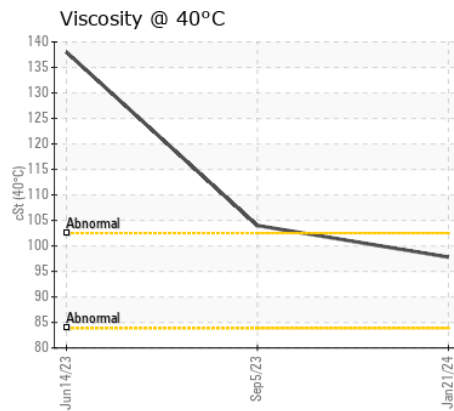
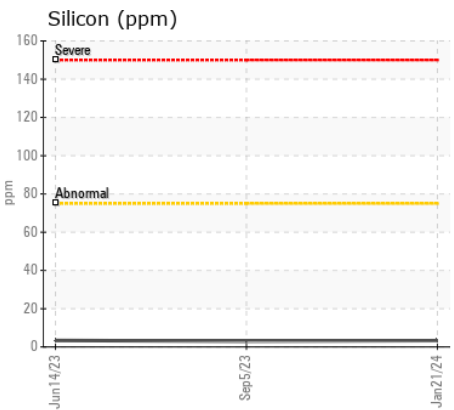
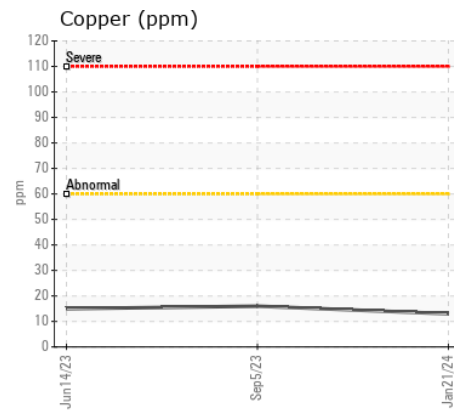
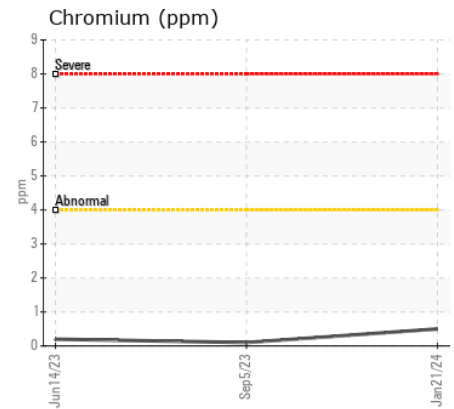
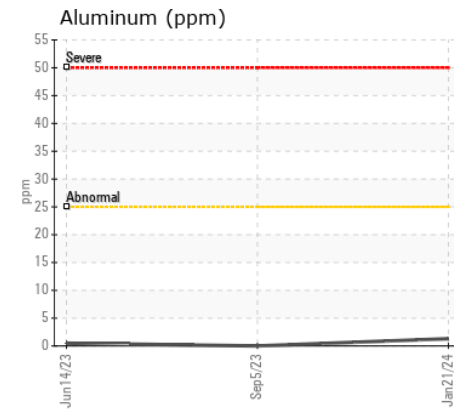
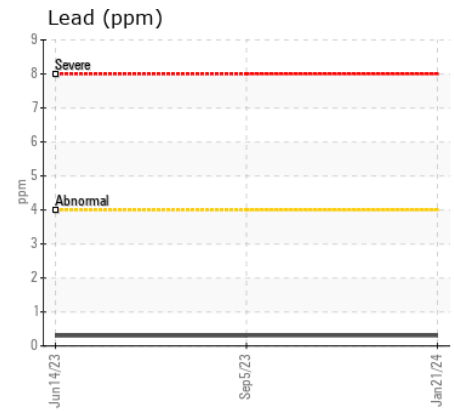
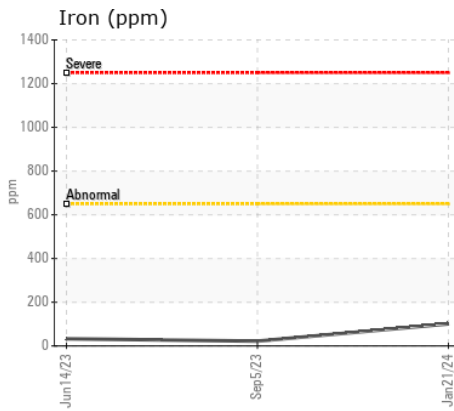
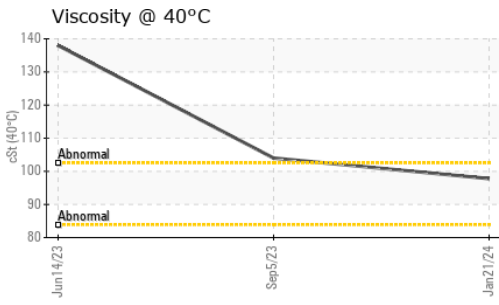
### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0278935</b>	LH0274550	LH0247195
Sample Date		Client Info		<b>21 Jan 2024</b>	05 Sep 2023	14 Jun 2023
Machine Age	hrs	Client Info		<b>2083</b>	1114	530
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL
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Iron	ppm	ASTM D5185(m)	>650	<b>101</b>	22	33
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	0	<1
Lead	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>60	<b>13</b>	16	15
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
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Silicon	ppm	ASTM D5185(m)	>75	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
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Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	5
Boron	ppm	ASTM D5185(m)		<b>283</b>	304	130
Barium	ppm	ASTM D5185(m)		<b>12</b>	1	17
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	2	1
Calcium	ppm	ASTM D5185(m)		<b>14</b>	11	12
Phosphorus	ppm	ASTM D5185(m)		<b>1301</b>	1326	1827
Zinc	ppm	ASTM D5185(m)		<b>26</b>	16	18
Sulfur	ppm	ASTM D5185(m)		<b>21739</b>	21480	30774
Visc @ 40°C	cSt	ASTM D7279(m)		<b>97.8</b>	104	138



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278935 **Received** : 22 Jan 2024  
**Lab Number** : 02610386 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711472 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**WENTWORTH METAL RECYCLING**  
 495 WENTWORTH STREET NORTH  
 HAMILTON, ON  
 CA L8L 5X1  
 Contact: Jaason  
 jaason@wentworthrecycling.com

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: