



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR A934 061746-1418**  
Component  
**Front Right Wheel Hub**  
Fluid  
**GEAR OIL SAE 75W90 (3 LTR)**

### 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 SAE 75W90. Please confirm.

### WEAR

All component wear rates are normal.

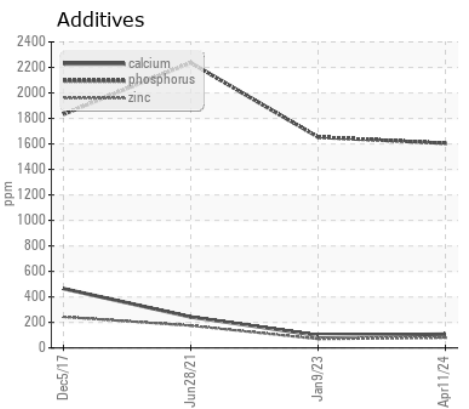
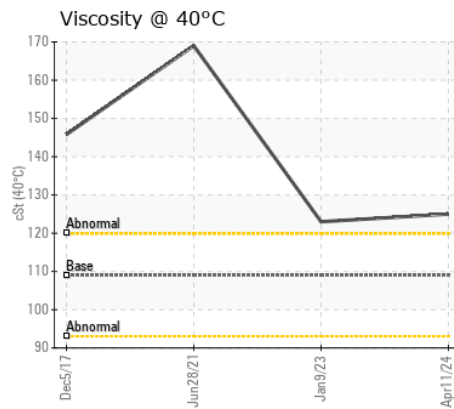
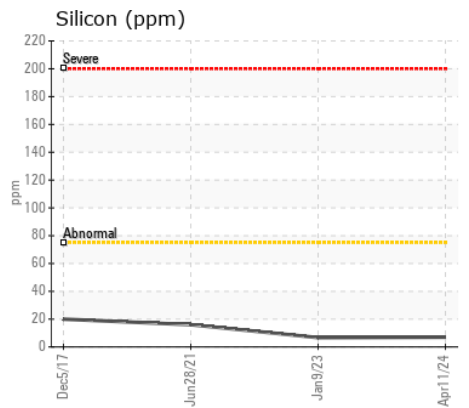
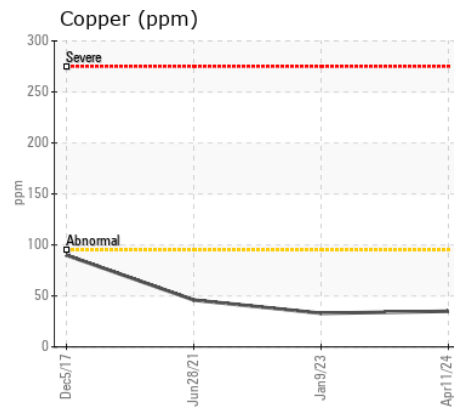
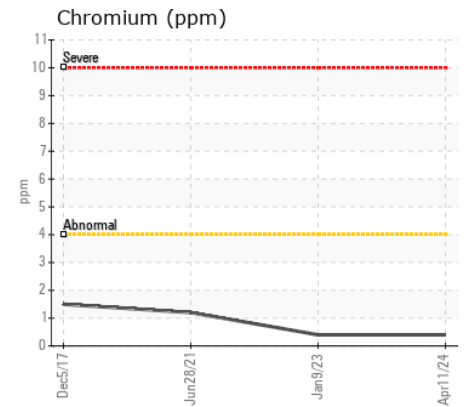
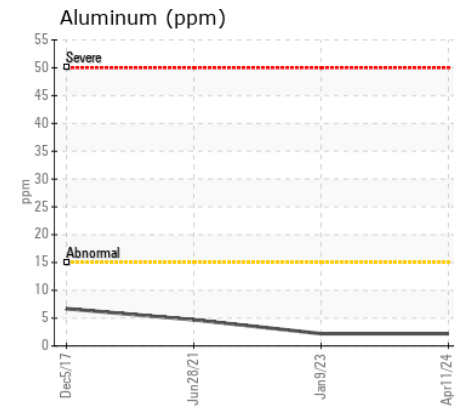
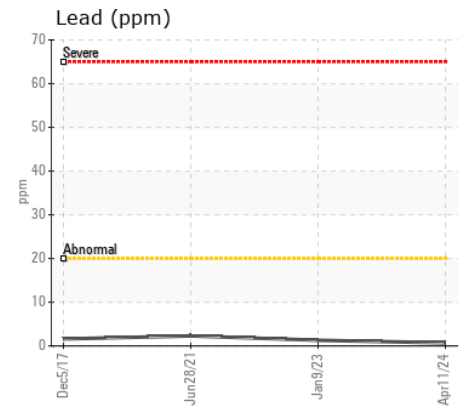
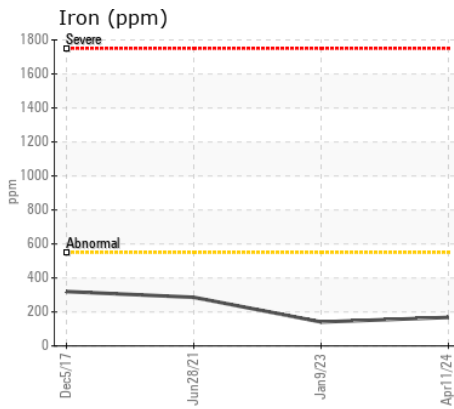
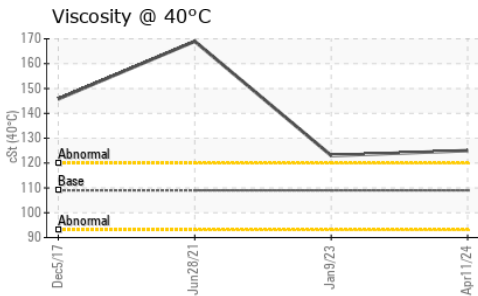
### CONTAMINATION

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>LH</b>	LH0251446	LH0193015
Sample Date		Client Info		<b>11 Apr 2024</b>	09 Jan 2023	28 Jun 2021
Machine Age	hrs	Client Info		<b>13245</b>	13240	11426
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>Not Changd</b>	Not Changd	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)	>550	<b>168</b>	141	286
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	5
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185(m)	>95	<b>35</b>	33	46
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	LIGHT
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Silicon	ppm	ASTM D5185(m)	>75	<b>7</b>	7	16
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	4	10
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</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>8</b>	7	20
Boron	ppm	ASTM D5185(m)	400	<b>114</b>	127	9
Barium	ppm	ASTM D5185(m)	200	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	12	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>3</b>	3	6
Magnesium	ppm	ASTM D5185(m)	12	<b>2</b>	2	3
Calcium	ppm	ASTM D5185(m)	150	<b>108</b>	98	243
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1605</b>	1653	2237
Zinc	ppm	ASTM D5185(m)	125	<b>80</b>	70	175
Sulfur	ppm	ASTM D5185(m)	22500	<b>21242</b>	21393	23380
Visc @ 40°C	cSt	ASTM D7279(m)	109	<b>125</b>	123	169



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**Sample No.** : LH

**Lab Number** : 02628533

**Unique Number** : 5761665

**Test Package** : MOB 1

**Received** : 12 Apr 2024

**Tested** : 12 Apr 2024

**Diagnosed** : 12 Apr 2024 - Wes Davis

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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