



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(336305)**  
Machine Id  
**LIEBHERR L566 057382-1332**  
Component  
**Front Left Wheel Hub**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (3 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH	LH0256090
Sample Date		Client Info		<b>08 Feb 2024</b>	13 Sep 2023	14 Apr 2023
Machine Age	hrs	Client Info		<b>5965</b>	5000	3900
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

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>44</b>	37	84
Chromium	ppm	ASTM D5185(m)	>8	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>50	<b>8</b>	7	18
Tin	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

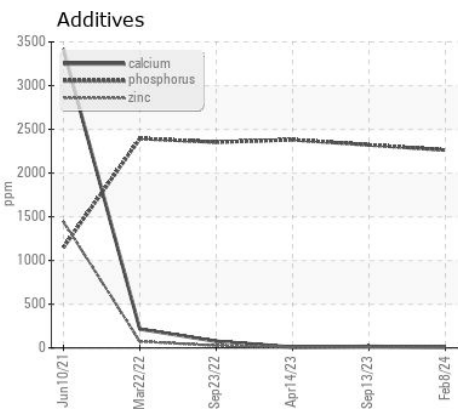
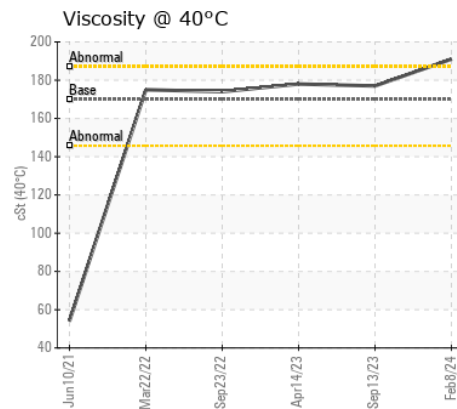
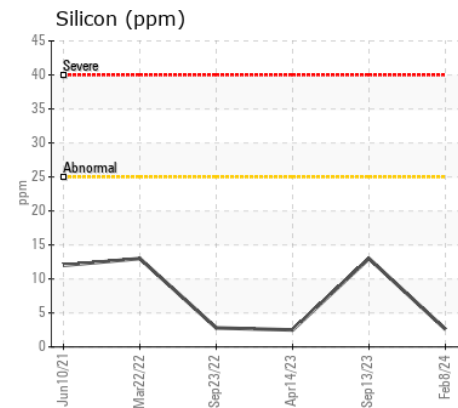
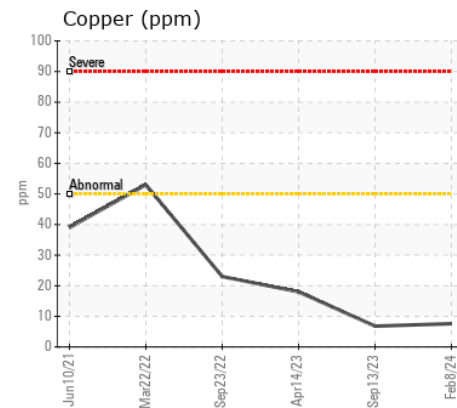
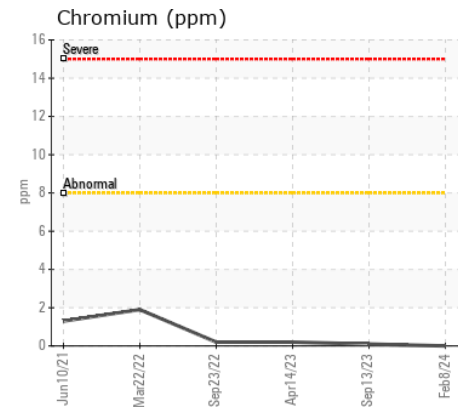
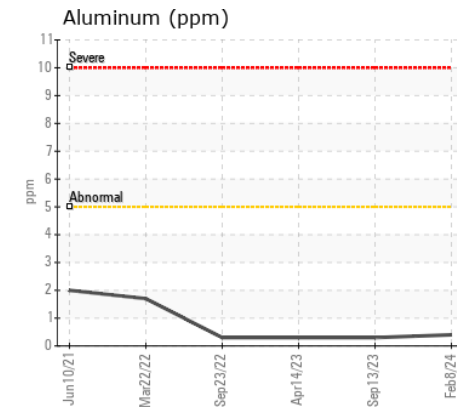
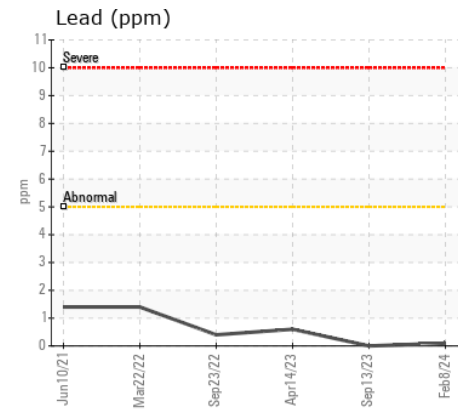
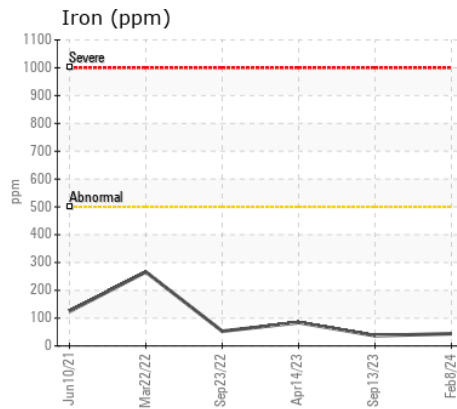
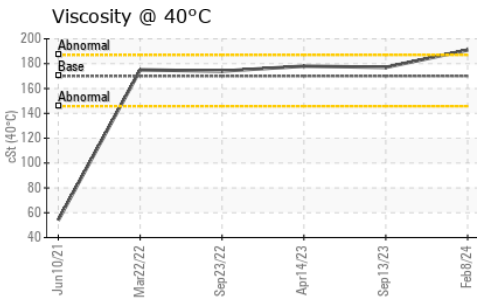
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	13	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	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

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>3</b>	4	18
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	<1	<b>11</b>	18	9
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2263</b>	2322	2381
Zinc	ppm	ASTM D5185(m)	<1	<b>7</b>	8	8
Sulfur	ppm	ASTM D5185(m)	23468	<b>24620</b>	25206	26595
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>191</b>	177	178



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH **Received** : 20 Feb 2024  
**Lab Number** : 02616751 **Tested** : 20 Feb 2024  
**Unique Number** : 5733861 **Diagnosed** : 20 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

**CGC DIVISION GYPSUM**  
 7200 RUE NOTRE-DAME EST  
 MONTREAL, QC  
 CA H1N 3L6  
 Contact: YVES CHEVALIER

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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