



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50 145582-1216**  
Component  
**Rear Right Wheel Hub**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0273647</b>	LH0272948	LH0268528
Sample Date		Client Info		<b>06 Jun 2024</b>	20 Nov 2023	14 Sep 2023
Machine Age	hrs	Client Info		<b>3371</b>	2062	1633
Oil Age	hrs	Client Info		<b>1000</b>	0	1633
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not 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 D5185m	>325	<b>17</b>	19	23
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>15</b>	19	17
Tin	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

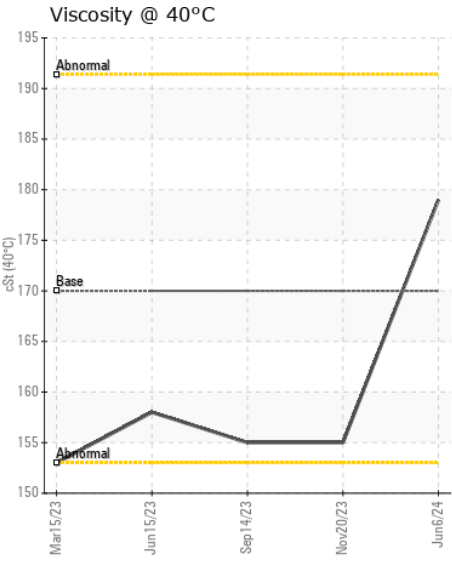
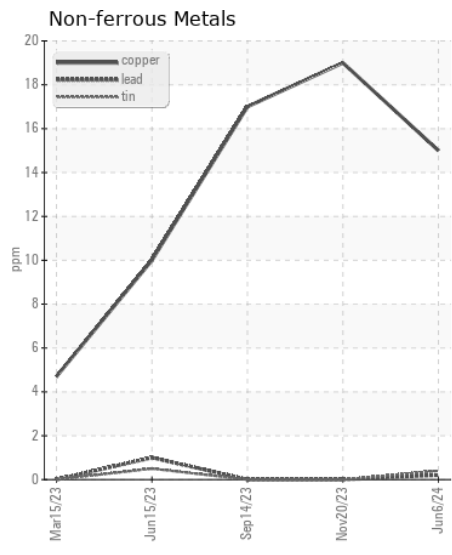
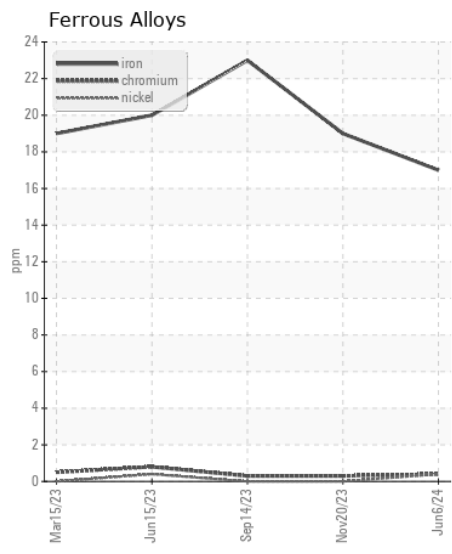
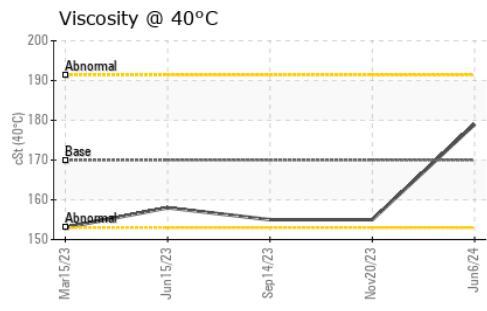
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>3</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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 D5185m		<b>2</b>	<1	1
Boron	ppm	ASTM D5185m	0	<b>3</b>	4	5
Barium	ppm	ASTM D5185m	0	<b>2</b>	2	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	4
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	<1	<b>&lt;1</b>	1	<1
Calcium	ppm	ASTM D5185m	<1	<b>58</b>	157	167
Phosphorus	ppm	ASTM D5185m	2143	<b>2176</b>	1472	1450
Zinc	ppm	ASTM D5185m	<1	<b>23</b>	18	34
Sulfur	ppm	ASTM D5185m	23468	<b>27110</b>	22439	22274
Visc @ 40°C	cSt	ASTM D445	170	<b>179</b>	155	155



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LH0273647  
**Lab Number** : 06215137  
**Unique Number** : 11088001  
**Test Package** : CONST  
**Received** : 19 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Wes Davis

**RECO EQUIPMENT INC**  
 10461 GRAND RIVER RD  
 BRIGHTON, MI  
 US 48116  
 Contact: MATT VISEL  
 MVISEL@RECOEQUIP.COM  
 T: (810)299-1731  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)