



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50M 144842-1216**  
Component  
**Front Right Wheel Hub**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0270190</b>	LH0274656	LH0256970
Sample Date		Client Info		<b>27 Feb 2024</b>	23 Aug 2023	09 Mar 2023
Machine Age	hrs	Client Info		<b>2406</b>	1252	561
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)	>325	<b>56</b>	95	50
Chromium	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	3	1
Lead	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>75	<b>16</b>	28	13
Tin	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
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

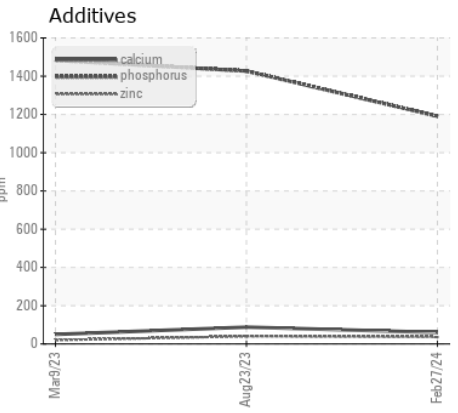
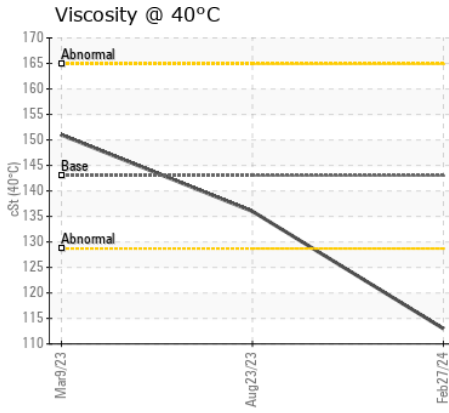
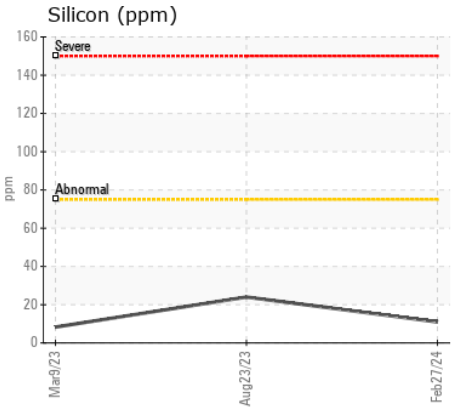
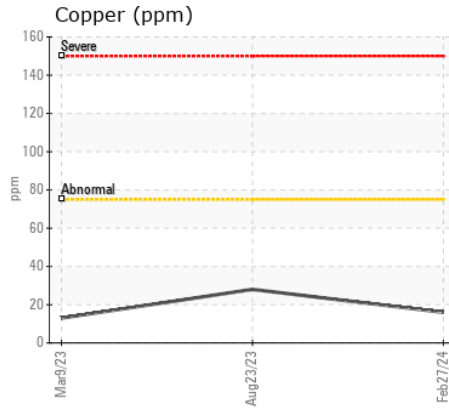
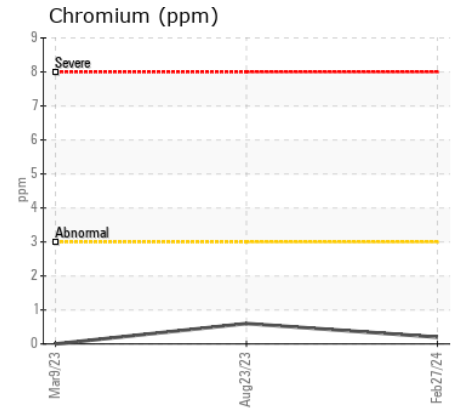
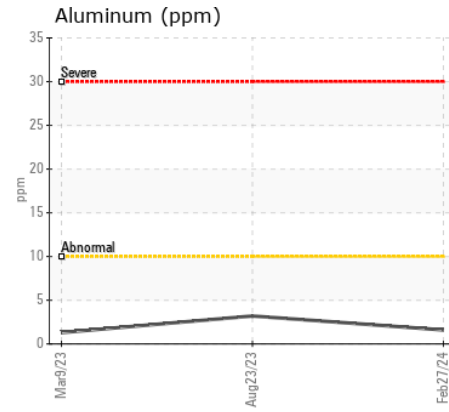
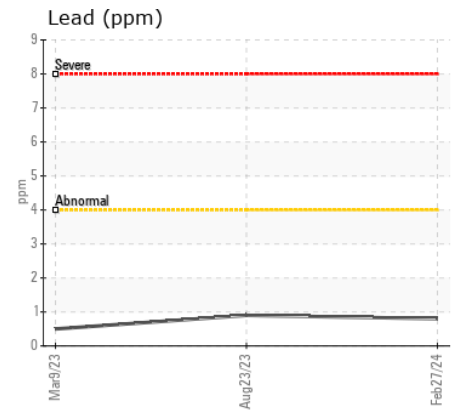
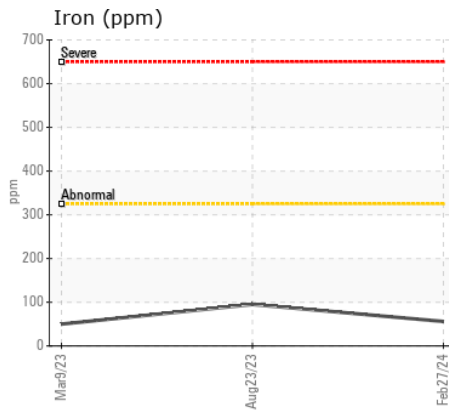
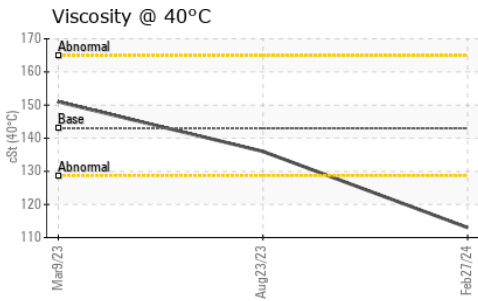
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>11</b>	24	8
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	LIGHT
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

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>170	<b>5</b>	6	3
Boron	ppm	ASTM D5185(m)	400	<b>164</b>	32	3
Barium	ppm	ASTM D5185(m)	200	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	12	<b>&lt;1</b>	2	3
Manganese	ppm	ASTM D5185(m)		<b>1</b>	3	1
Magnesium	ppm	ASTM D5185(m)	12	<b>2</b>	2	<1
Calcium	ppm	ASTM D5185(m)	150	<b>60</b>	88	50
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1191</b>	1427	1483
Zinc	ppm	ASTM D5185(m)	125	<b>36</b>	40	20
Sulfur	ppm	ASTM D5185(m)	22500	<b>18933</b>	18913	19207
Visc @ 40°C	cSt	ASTM D7279(m)	143	<b>113</b>	136	151



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0270190 **Received** : 28 Feb 2024  
**Lab Number** : 02618767 **Tested** : 28 Feb 2024  
**Unique Number** : 5735877 **Diagnosed** : 28 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

**American Iron and Metal**  
 140 DOWTY ROAD  
 AJAX, ON  
 CA L1S 1P7  
 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: