



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50M 123311-1216**  
Component  
**Transmission (Manual)**  
Fluid  
**SAE 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0289494</b>	LH0261372	LH0242491
Sample Date		Client Info		<b>25 Apr 2024</b>	01 May 2023	24 Oct 2022
Machine Age	hrs	Client Info		<b>8175</b>	6157	5011
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>None</b>	None	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>12</b>	10	8
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>225	<b>11</b>	8	9
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<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

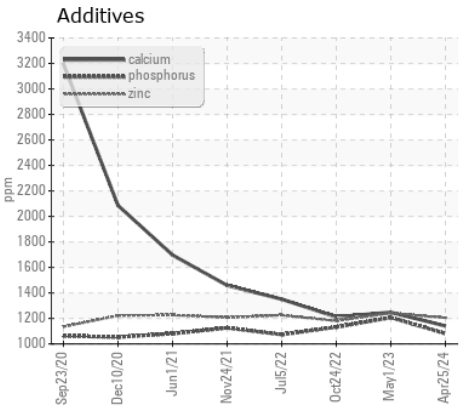
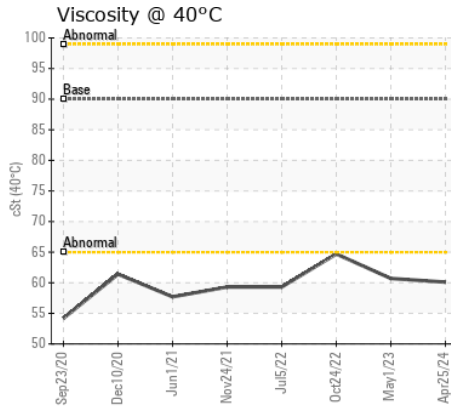
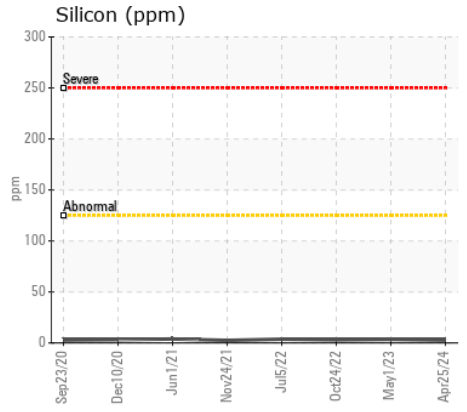
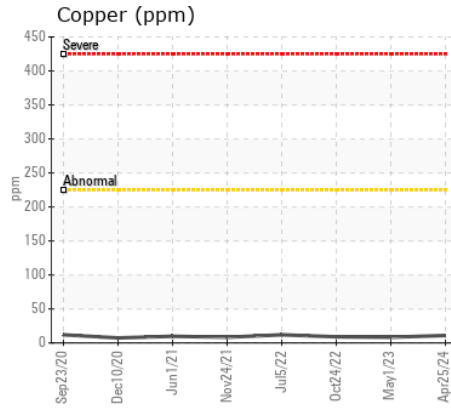
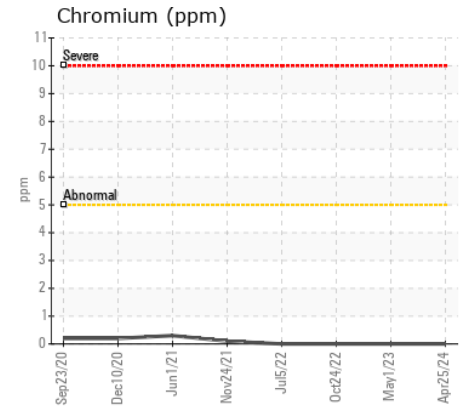
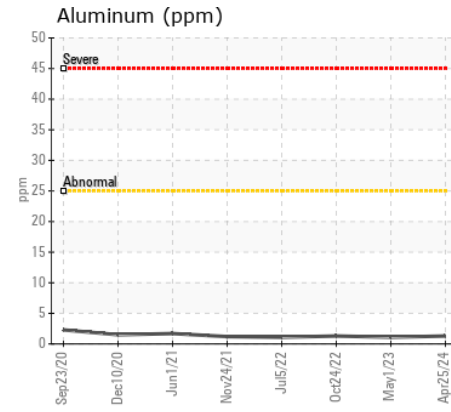
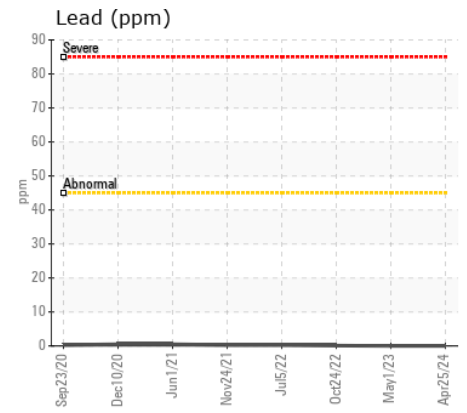
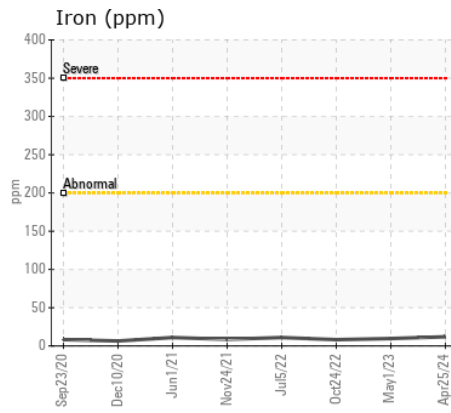
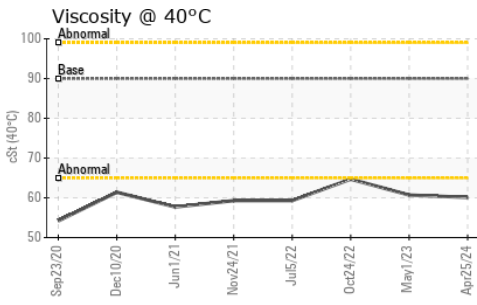
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	<b>3</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>401	<b>3</b>	3	5
Boron	ppm	ASTM D5185(m)		<b>4</b>	5	5
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>60</b>	61	57
Manganese	ppm	ASTM D5185(m)		<b>6</b>	6	6
Magnesium	ppm	ASTM D5185(m)		<b>974</b>	982	887
Calcium	ppm	ASTM D5185(m)		<b>1141</b>	1248	1212
Phosphorus	ppm	ASTM D5185(m)		<b>1081</b>	1207	1132
Zinc	ppm	ASTM D5185(m)		<b>1205</b>	1242	1180
Sulfur	ppm	ASTM D5185(m)		<b>2861</b>	3135	3111
Visc @ 40°C	cSt	ASTM D7279(m)	90.0	<b>60.1</b>	60.7	64.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0289494  
**Lab Number** : 02631689  
**Unique Number** : 5772842  
**Test Package** : MOB 1  
**Received** : 26 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Wes Davis

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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.