



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LR636 018081-1275**  
Component  
**Left Final Drive**  
Fluid  
**GEAR OIL SAE 90 (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 90. Please confirm.

### WEAR

All component wear rates are normal.

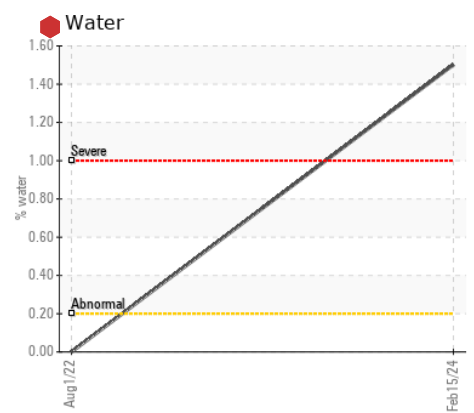
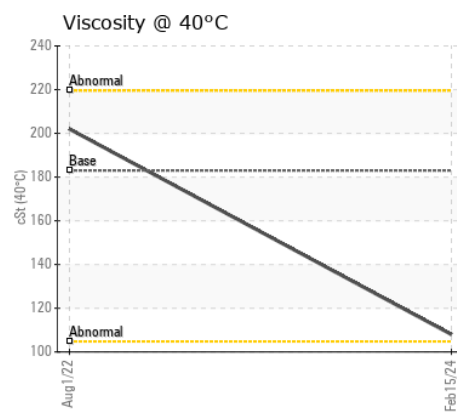
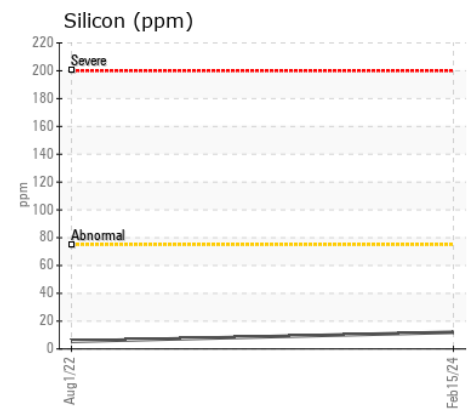
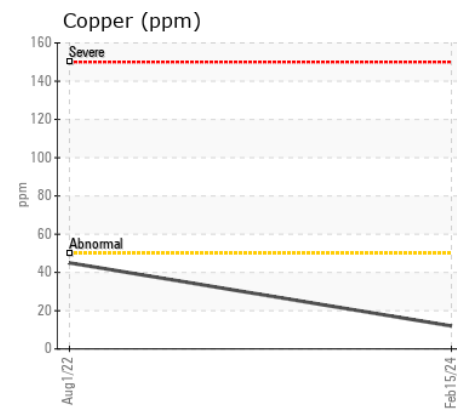
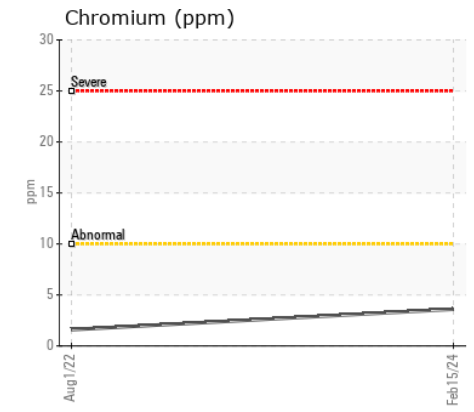
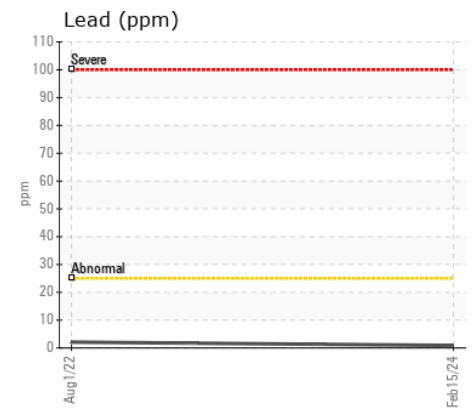
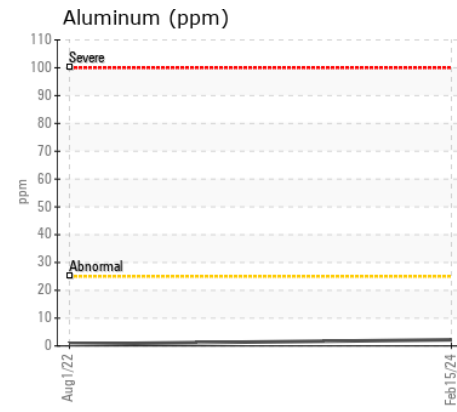
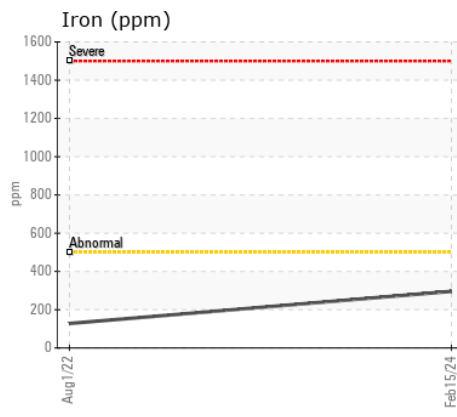
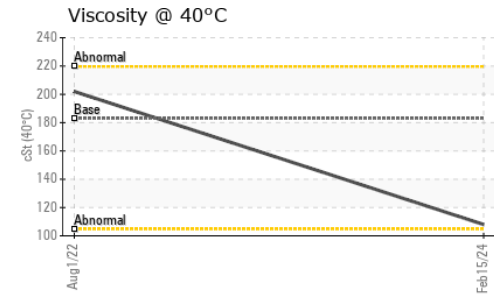
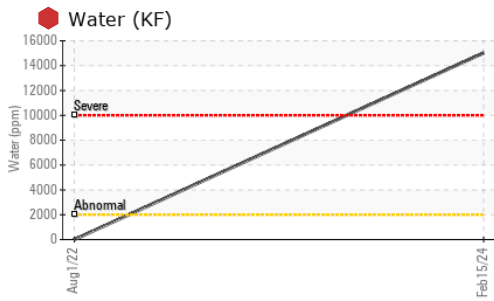
### CONTAMINATION

There is a high concentration of water present in the oil.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0278843</b>	LH0239518	---
Sample Date		Client Info		<b>15 Feb 2024</b>	01 Aug 2022	---
Machine Age	hrs	Client Info		<b>5913</b>	4360	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>SEVERE</b>	NORMAL	---
Iron	ppm	ASTM D5185(m)	>500	<b>296</b>	128	---
Chromium	ppm	ASTM D5185(m)	>10	<b>4</b>	2	---
Nickel	ppm	ASTM D5185(m)	>10	<b>2</b>	1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	<1	---
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185(m)	>50	<b>12</b>	45	---
Tin	ppm	ASTM D5185(m)	>10	<b>2</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185(m)	>75	<b>12</b>	6	---
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	9	---
Water	%	ASTM D6304*	>0.2	<b>1.502</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>15027</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Appearance	scalar	Visual*	NORML	<b>MILKY</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>1%</b>	NEG	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	---
Boron	ppm	ASTM D5185(m)	400	<b>222</b>	100	---
Barium	ppm	ASTM D5185(m)	200	<b>2</b>	13	---
Molybdenum	ppm	ASTM D5185(m)	12	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	---
Magnesium	ppm	ASTM D5185(m)	12	<b>5</b>	5	---
Calcium	ppm	ASTM D5185(m)	150	<b>31</b>	14	---
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1182</b>	999	---
Zinc	ppm	ASTM D5185(m)	125	<b>54</b>	39	---
Sulfur	ppm	ASTM D5185(m)	22500	<b>21004</b>	20650	---
Visc @ 40°C	cSt	ASTM D7279(m)	183	<b>108</b>	202	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278843 **Received** : 20 Feb 2024  
**Lab Number** : 02616796 **Tested** : 21 Feb 2024  
**Unique Number** : 5733906 **Diagnosed** : 21 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KF )

**CON-DRAIN LTD.**  
 30 FLORAL PARKWAY  
 CONCORD, ON  
 CA L4K 4R1  
 Contact: B BAXTER  
 B.BAXTER@CONDRAIN.COM  
 T:  
 F:

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.