



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**(362877)**  
Machine Id  
**LIEBHERR R914 053852-1511**  
Component  
**Swing Drive**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0287896	---	---
Sample Date		Client Info		26 Apr 2024	---	---
Machine Age	hrs	Client Info		529	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>750	323	---	---
Chromium	ppm	ASTM D5185(m)	>10	2	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	---	---
Lead	ppm	ASTM D5185(m)	>5	2	---	---
Copper	ppm	ASTM D5185(m)	>250	64	---	---
Tin	ppm	ASTM D5185(m)	>10	1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

### CONTAMINATION

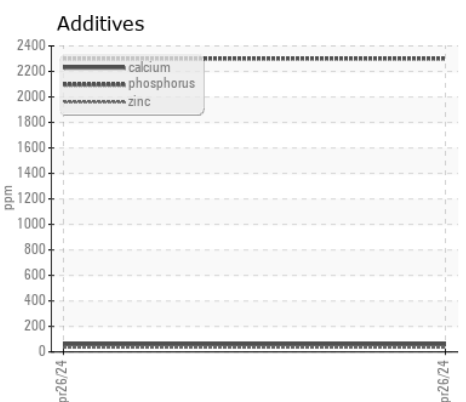
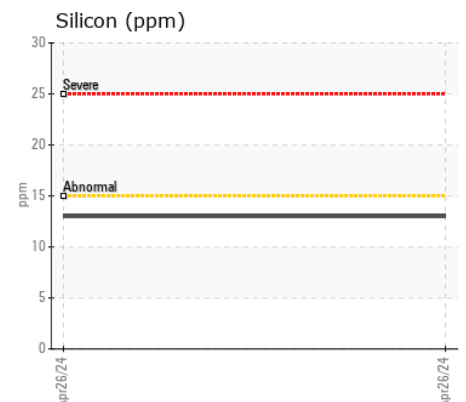
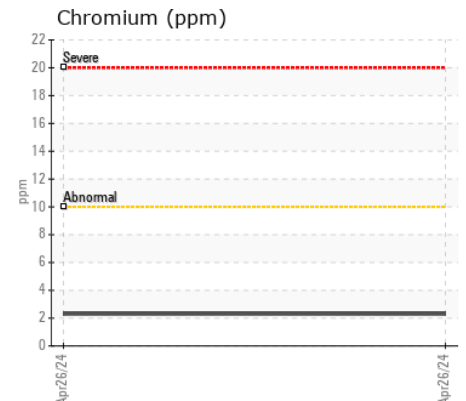
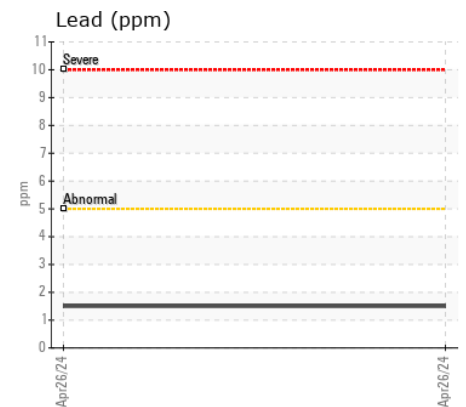
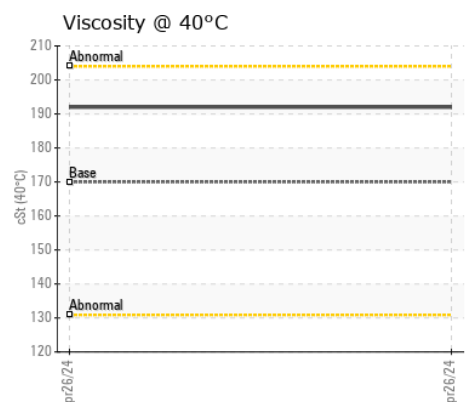
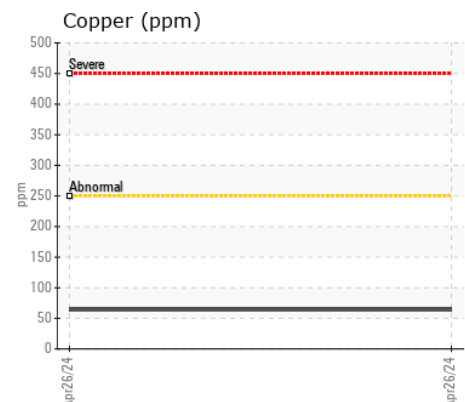
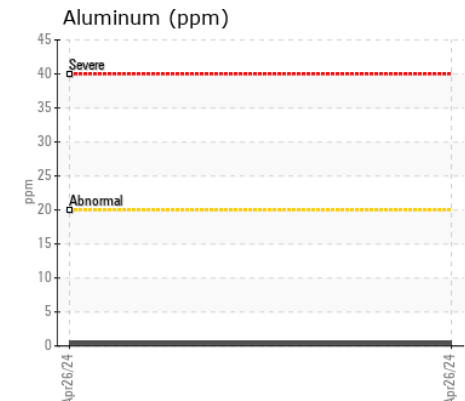
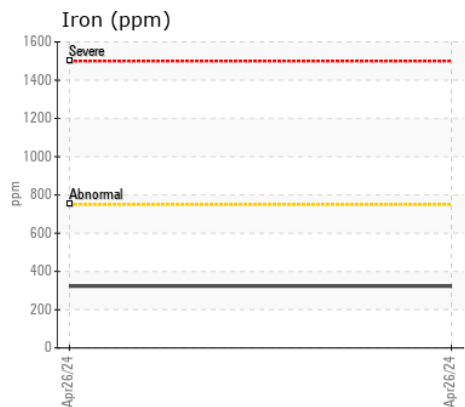
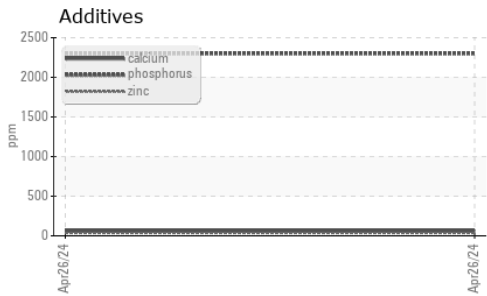
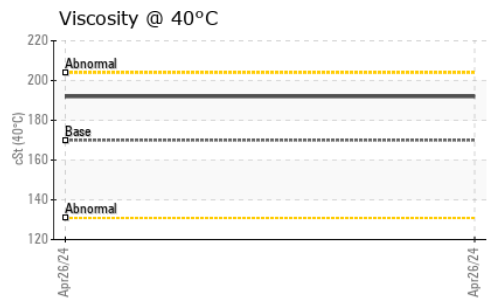
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	13	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

### FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		9	---	---
Boron	ppm	ASTM D5185(m)	0	2	---	---
Barium	ppm	ASTM D5185(m)	0	11	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	0	4	---	---
Magnesium	ppm	ASTM D5185(m)	<1	1	---	---
Calcium	ppm	ASTM D5185(m)	<1	60	---	---
Phosphorus	ppm	ASTM D5185(m)	2143	2301	---	---
Zinc	ppm	ASTM D5185(m)	<1	35	---	---
Sulfur	ppm	ASTM D5185(m)	23468	25246	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	192	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0287896  
**Lab Number** : 02633662  
**Unique Number** : 5774815  
**Test Package** : MOB 1  
**Received** : 06 May 2024  
**Tested** : 07 May 2024  
**Diagnosed** : 07 May 2024 - Kevin Marson

**HAFKE PROPERTY MAINTENANCE**  
 201 MAIN STREET  
 TOBIQUE FIRST NATION, NB  
 CA E7H 2X3  
 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: