



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH18M 133780-1840**  
Component  
**Transmission**  
Fluid  
**SAE 5W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH0261202	LH0250905
Sample Date		Client Info		<b>21 Apr 2024</b>	01 Sep 2023	30 Jan 2023
Machine Age	hrs	Client Info		<b>2000</b>	2973	1835
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>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	<b>20</b>	26	18
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>4</b>	2	2
Lead	ppm	ASTM D5185(m)	>150	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>250	<b>19</b>	20	10
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

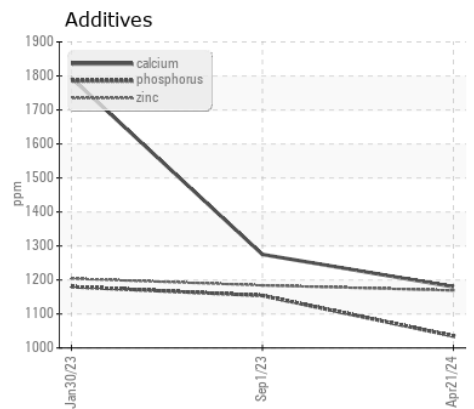
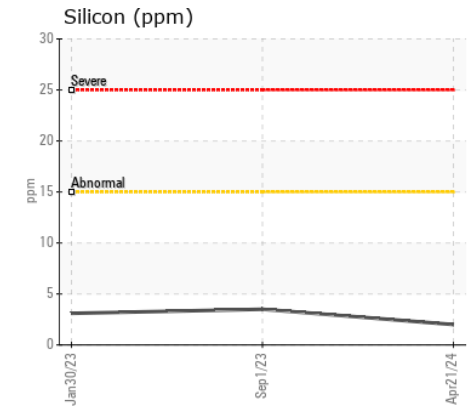
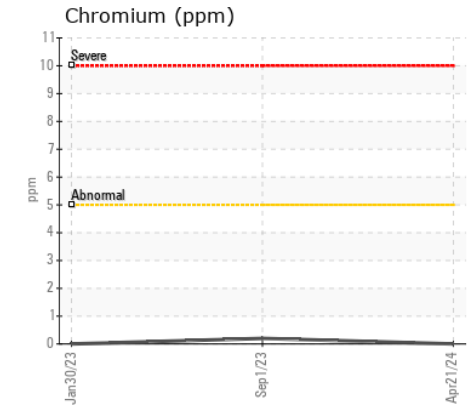
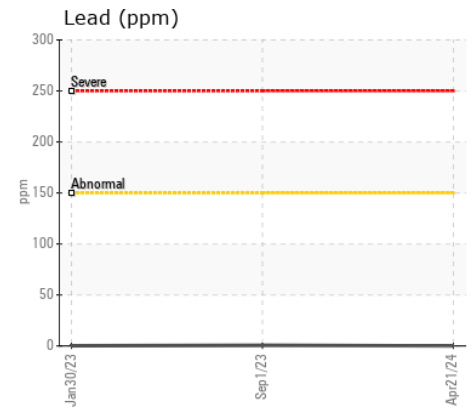
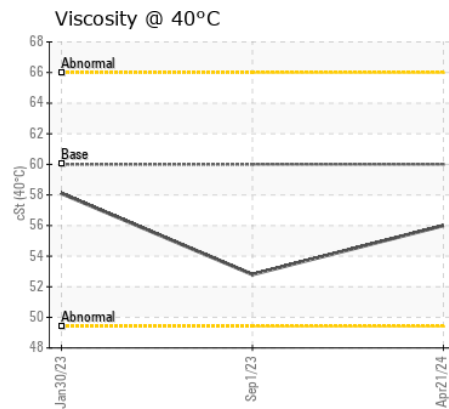
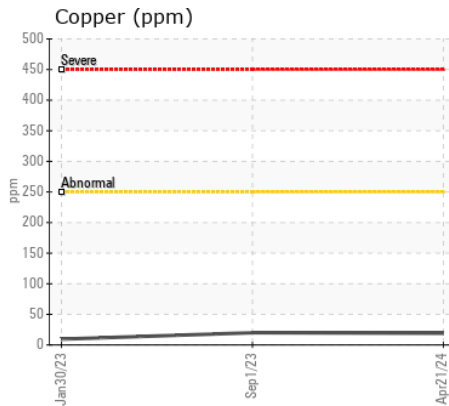
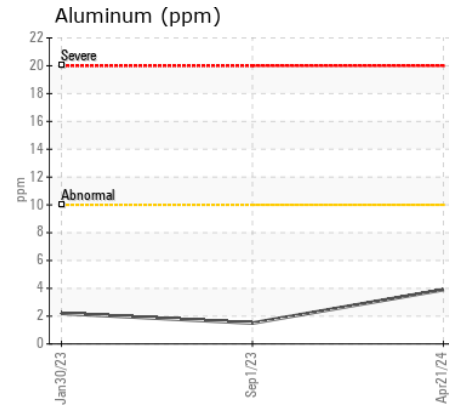
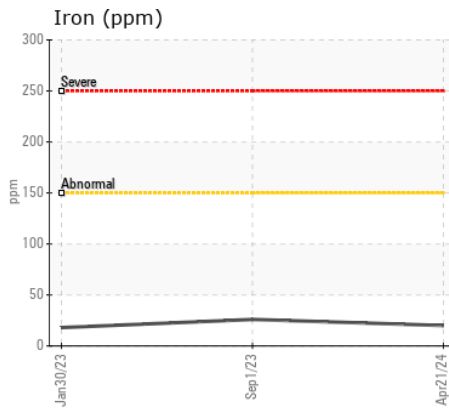
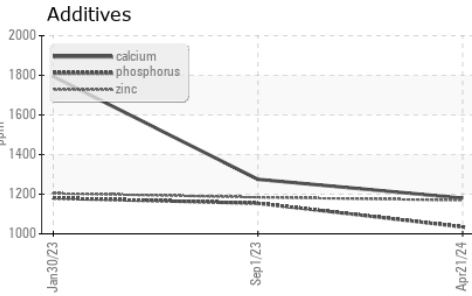
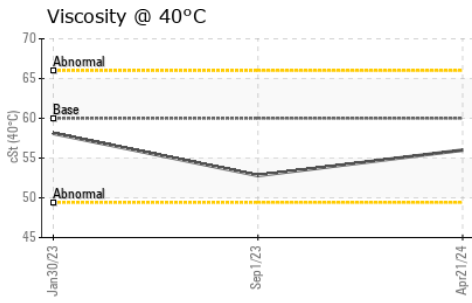
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>15	<b>2</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	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>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*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>6</b>	9	12
Boron	ppm	ASTM D5185(m)		<b>18</b>	34	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>54</b>	51	43
Manganese	ppm	ASTM D5185(m)		<b>5</b>	4	4
Magnesium	ppm	ASTM D5185(m)		<b>952</b>	925	708
Calcium	ppm	ASTM D5185(m)		<b>1180</b>	1275	1794
Phosphorus	ppm	ASTM D5185(m)		<b>1035</b>	1154	1180
Zinc	ppm	ASTM D5185(m)		<b>1169</b>	1184	1204
Sulfur	ppm	ASTM D5185(m)		<b>3387</b>	3709	4472
Visc @ 40°C	cSt	ASTM D7279(m)	60.0	<b>56.0</b>	52.8	58.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH  
**Lab Number** : 02630716  
**Unique Number** : 5763848  
**Test Package** : MOB 1  
**Received** : 22 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Kevin Marson

**SERVICES SANITAIRES ST-ANTOINE INC**  
 16600 RTE SIR WILFRID-LAURIER  
 MIRABEL, QC  
 CA J7J 2G3  
 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.

T:  
F: