



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH30M 144578-1253**  
Component  
**Transmission (Manual)**  
Fluid  
**PETRO CANADA 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0278617</b>	LH0250056	---
Sample Date		Client Info		<b>16 Jan 2024</b>	22 Mar 2023	---
Machine Age	hrs	Client Info		<b>1200</b>	498	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>30</b>	16	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	3	---
Lead	ppm	ASTM D5185(m)	>45	<b>1</b>	1	---
Copper	ppm	ASTM D5185(m)	>225	<b>28</b>	17	---
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

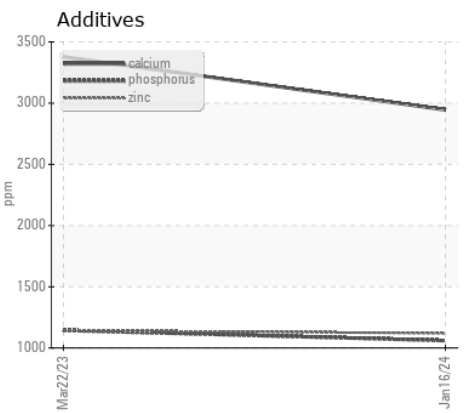
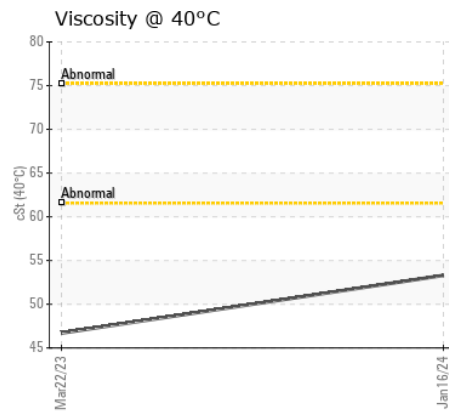
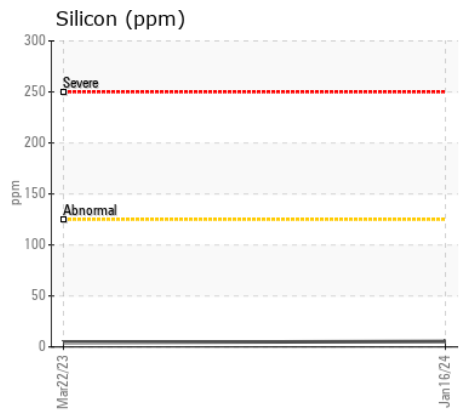
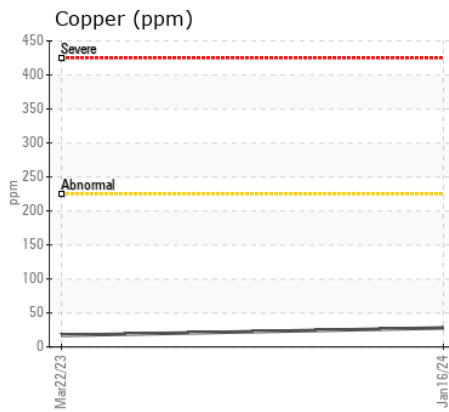
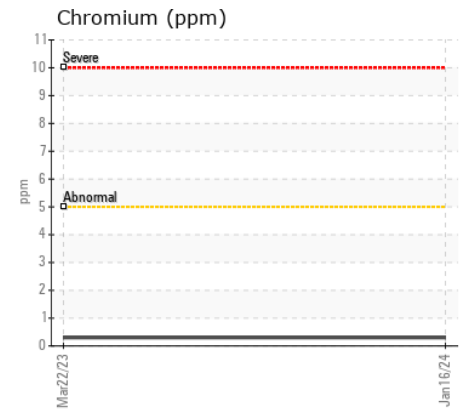
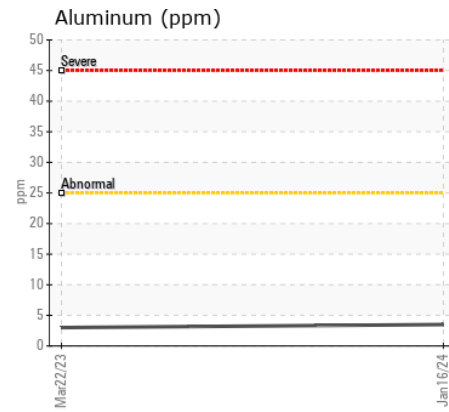
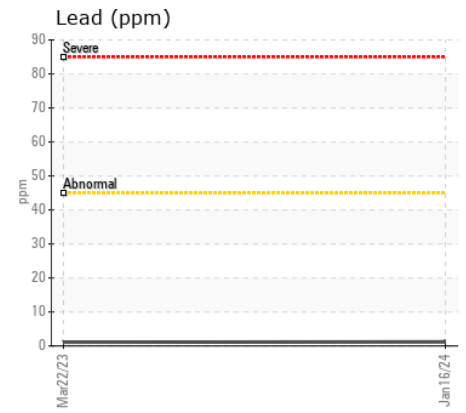
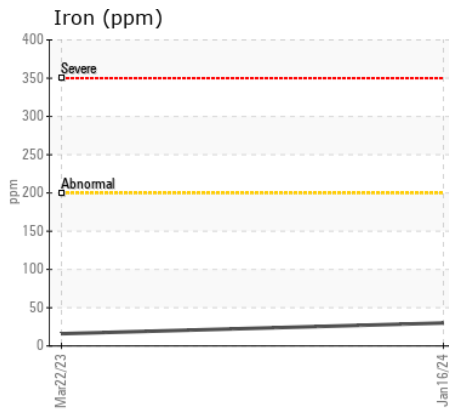
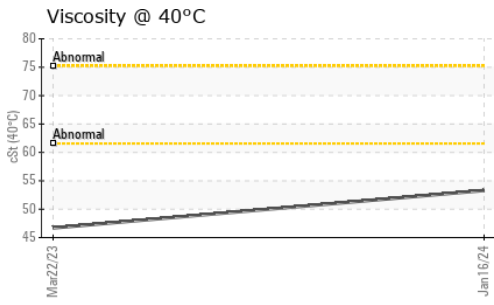
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	<b>5</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	3	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>LIGHT</b>	VLITE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>20	<b>32</b>	49	---
Boron	ppm	ASTM D5185(m)		<b>33</b>	4	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Manganese	ppm	ASTM D5185(m)		<b>16</b>	20	---
Magnesium	ppm	ASTM D5185(m)		<b>10</b>	10	---
Calcium	ppm	ASTM D5185(m)		<b>2945</b>	3379	---
Phosphorus	ppm	ASTM D5185(m)		<b>1060</b>	1144	---
Zinc	ppm	ASTM D5185(m)		<b>1119</b>	1143	---
Sulfur	ppm	ASTM D5185(m)		<b>6630</b>	7924	---
Visc @ 40°C	cSt	ASTM D7279(m)		<b>53.3</b>	46.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278617 **Received** : 16 Jan 2024  
**Lab Number** : 02609039 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5710125 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

**Industrial Metals**  
 550 Messier St.  
 Winnipeg, MB  
 CA R2J 0G5  
 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: