



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L566 074234-1758**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0155026</b>	LH0269997	---
Sample Date		Client Info		<b>29 Dec 2023</b>	04 Nov 2023	---
Machine Age	hrs	Client Info		<b>1395</b>	708	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>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)	>100	<b>5</b>	8	---
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>15	<b>1</b>	3	---
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	5	---
Copper	ppm	ASTM D5185(m)	>125	<b>59</b>	164	---
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

### CONTAMINATION

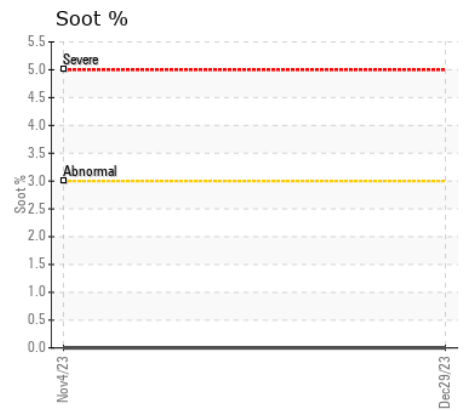
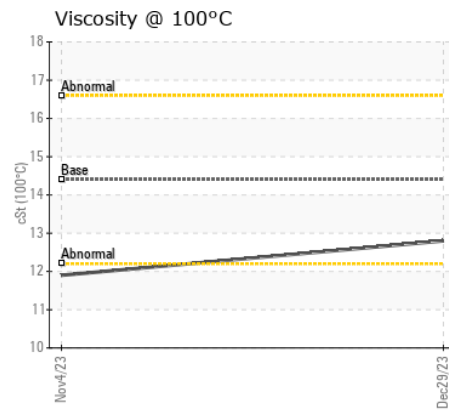
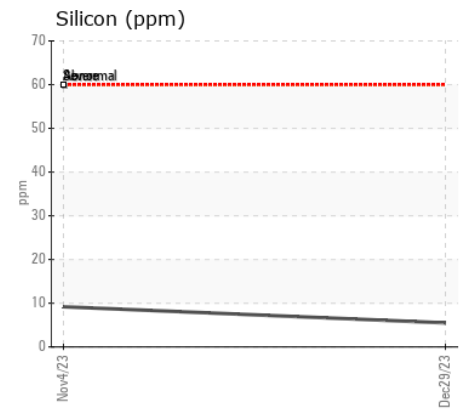
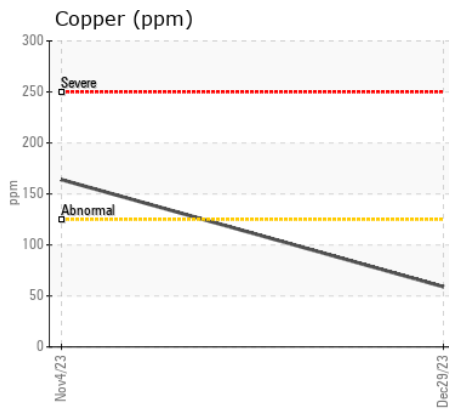
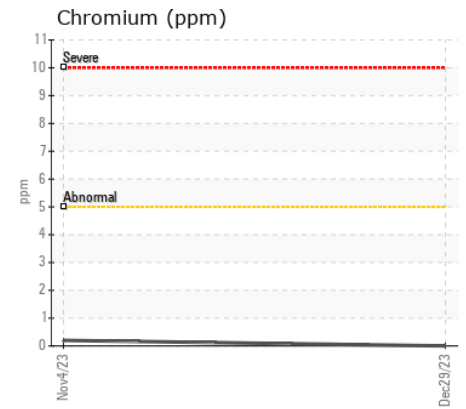
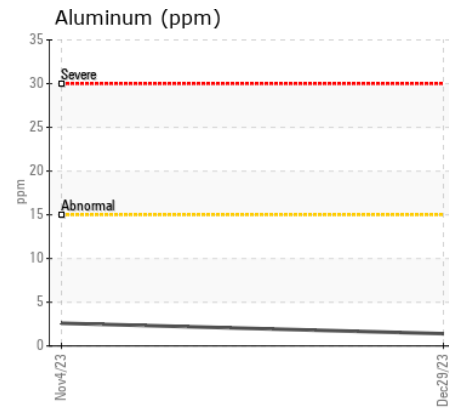
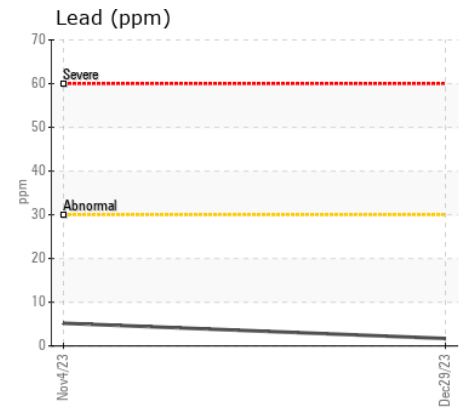
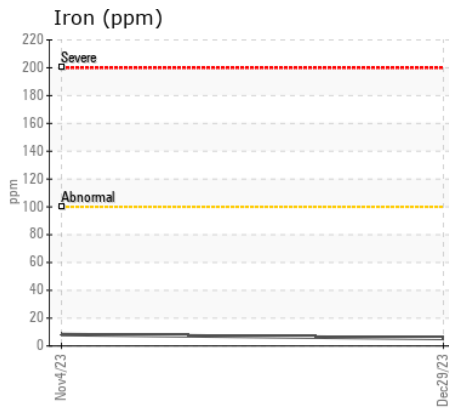
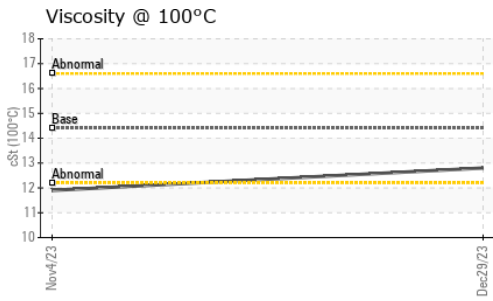
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>6</b>	9	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.4</b>	10.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	35.7	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>216	<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)	250	<b>34</b>	97	---
Barium	ppm	ASTM D5185(m)	10	<b>5</b>	27	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>43</b>	40	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	2	---
Magnesium	ppm	ASTM D5185(m)	450	<b>863</b>	900	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1170</b>	1317	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>864</b>	739	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1008</b>	854	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2604</b>	2063	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.0</b>	42.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>12.8</b>	11.9	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0155026 **Received** : 08 Jan 2024  
**Lab Number** : 02606889 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 5707975 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Groupe Label Inc div Nouvelle**  
 521 Route 132 Ouest  
 Nouvelle-Ouest, QC  
 CA G0C 2G0  
 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: