



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH22M 136874-1250**  
Component  
**Front Right Wheel Hub**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH0249967	---
Sample Date		Client Info		<b>05 Jan 2024</b>	25 Jan 2023	---
Machine Age	hrs	Client Info		<b>1000</b>	500	---
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>None</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>650	<b>61</b>	30	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>60	<b>18</b>	32	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	---

### CONTAMINATION

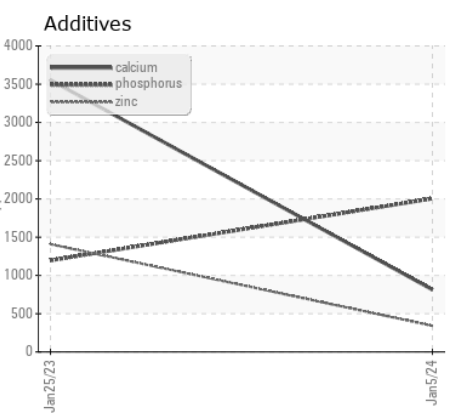
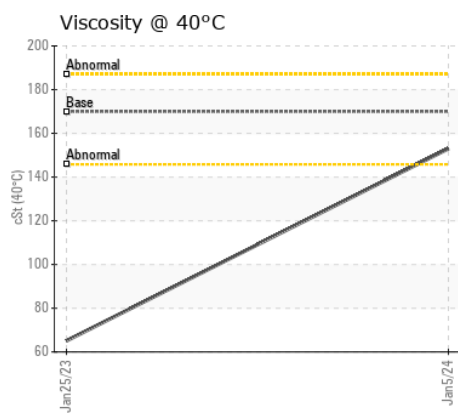
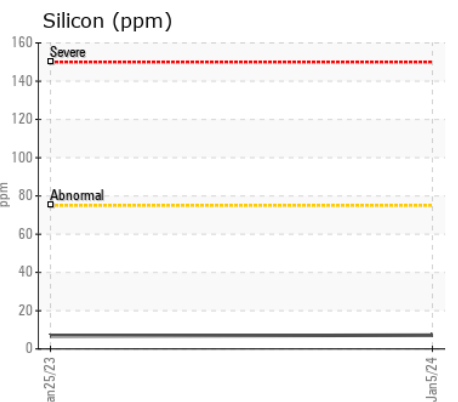
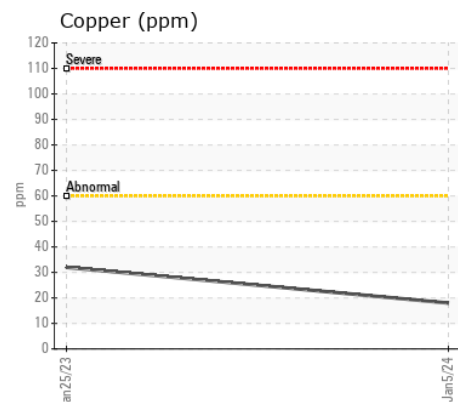
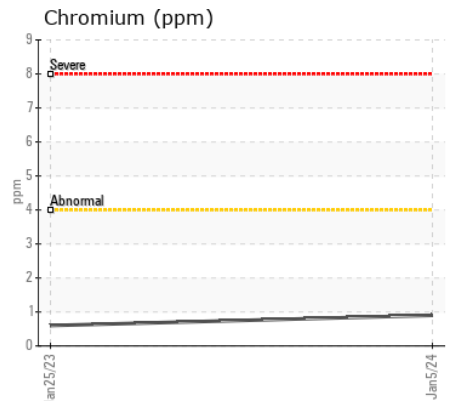
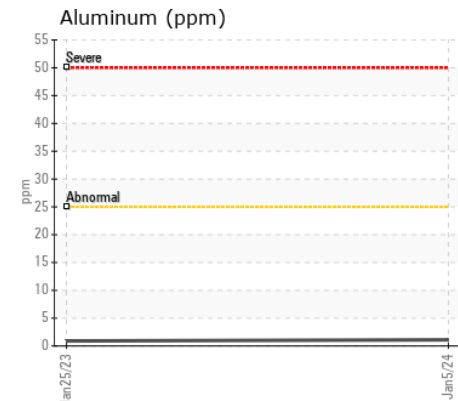
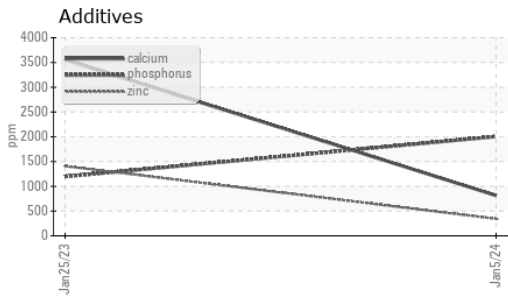
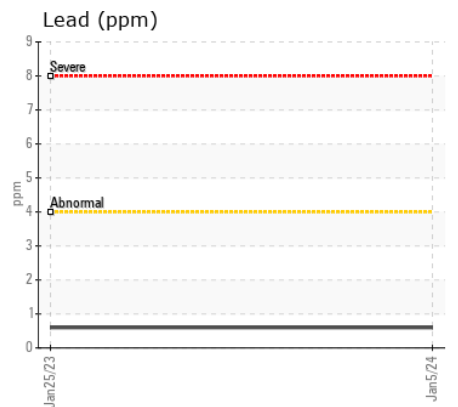
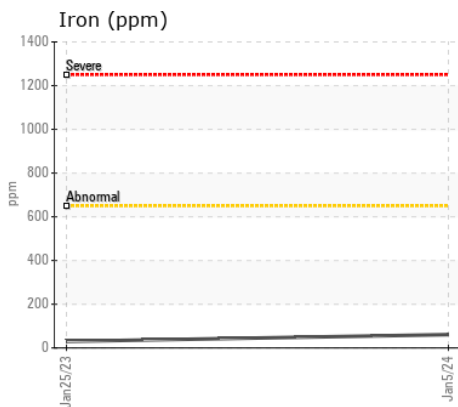
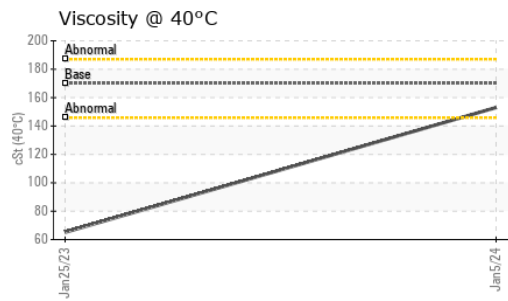
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>75	<b>7</b>	7	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.2	<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>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>11</b>	19	---
Boron	ppm	ASTM D5185(m)	0	<b>15</b>	101	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	1	---
Magnesium	ppm	ASTM D5185(m)	<1	<b>3</b>	9	---
Calcium	ppm	ASTM D5185(m)	<1	<b>814</b>	3555	---
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2005</b>	1196	---
Zinc	ppm	ASTM D5185(m)	<1	<b>342</b>	1408	---
Sulfur	ppm	ASTM D5185(m)	23468	<b>19385</b>	2866	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>153</b>	65.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LA REGIE DES MATIERES RESIDUELLES DU LAC ST-JEAN  
**Sample No.** : LH **Recieved** : 12 Jan 2024 **625 RUE BERGERON OUEST**  
**Lab Number** : 02608625 **Diagnosed** : 14 Jan 2024 **ALMA, QC**  
**Unique Number** : 5709711 **Diagnostician** : Kevin Marson **CA G8B 1V3**  
**Test Package** : MOB 1 **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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