



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L550 070714-1825**  
Component  
**Front Right Wheel Hub**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0248556</b>	---	---
Sample Date		Client Info		<b>05 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>1384</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>None</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

### WEAR

Usure de palier et (ou) de douille.

Iron	ppm	ASTM D5185(m)	>500	<b>167</b>	---	---
Chromium	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>5	<b>4</b>	---	---
Copper	ppm	ASTM D5185(m)	>50	<b>131</b>	---	---
Tin	ppm	ASTM D5185(m)		<b>4</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

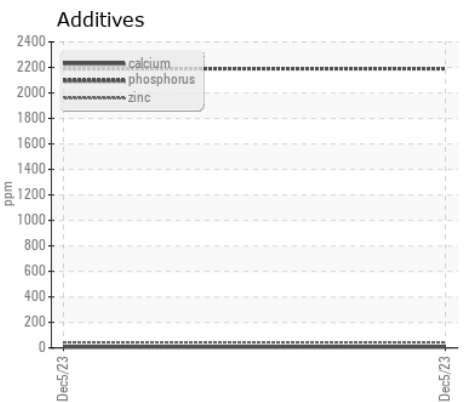
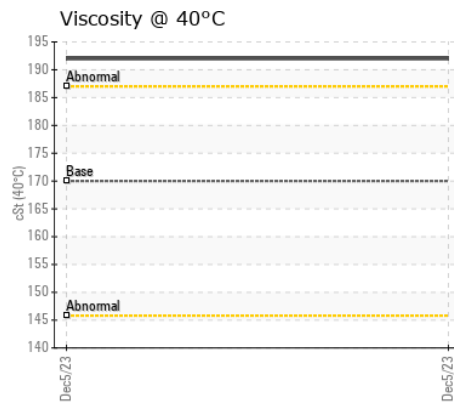
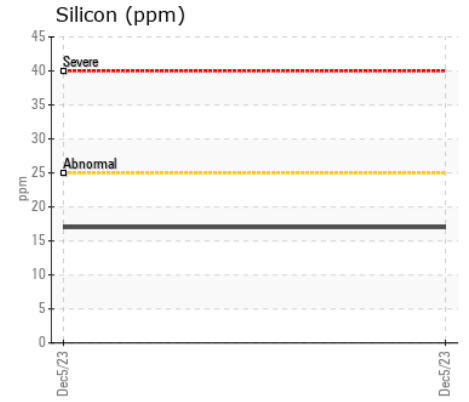
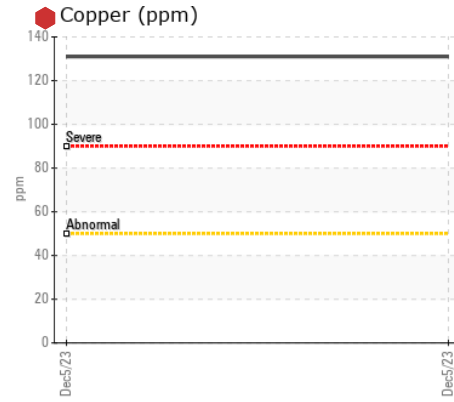
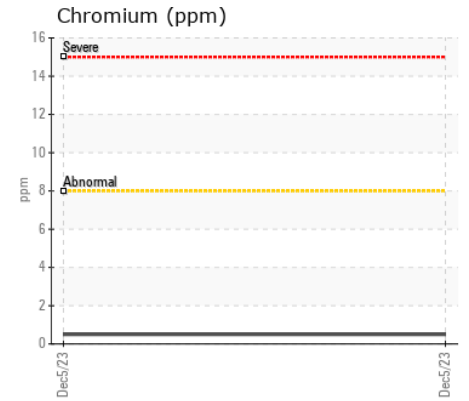
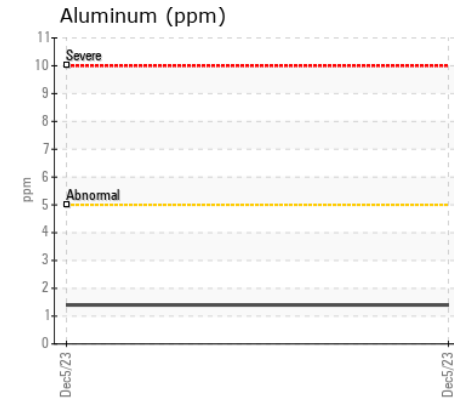
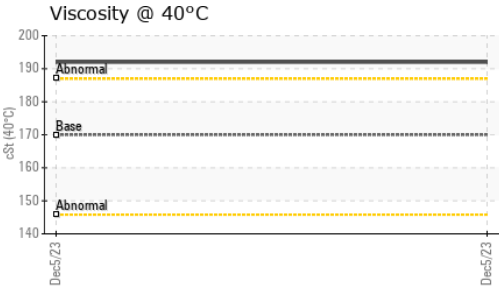
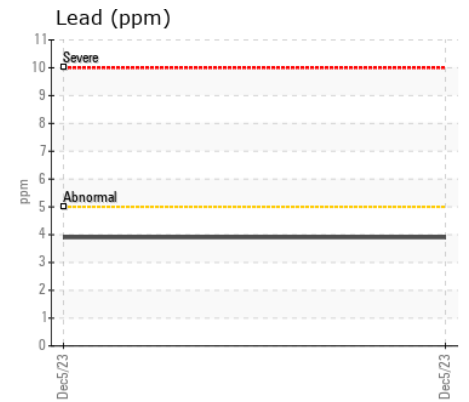
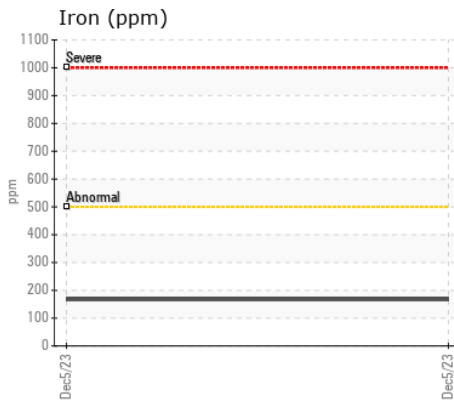
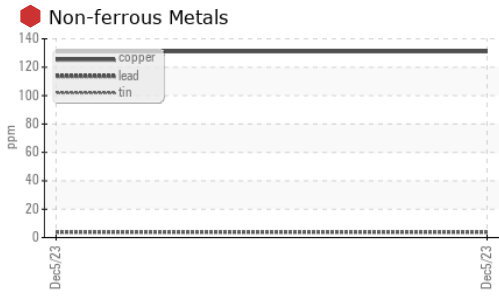
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>17</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. La viscosité de l'échantillon se situe dans la portée de l'SAE 90; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		<b>9</b>	---	---
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>25</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<1	<b>2</b>	---	---
Calcium	ppm	ASTM D5185(m)	<1	<b>8</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2190</b>	---	---
Zinc	ppm	ASTM D5185(m)	<1	<b>43</b>	---	---
Sulfur	ppm	ASTM D5185(m)	23468	<b>24940</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>192</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0248556 **Received** : 10 Jan 2024  
**Lab Number** : 02607906 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 5708992 **Diagnostician** : Kevin Marson  
**Test Package** : MOBCE ( Additional Tests: Visual )

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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