



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L586 048529-1334**  
Component  
**Transmission (Manual)**  
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. Le fluide était spécifié comme LIEBHERR GEAR BASIC 90 LS, toutefois, une comparaison avec d'autres fluides indiquent que ce fluide est du SAE 75W80 Tractor TDH Fluid. Veuillez confirmer la viscosité de l'huile et veuillez préciser la marque de votre prochain échantillon.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0163407</b>	LH0227154	LH0163368
Sample Date		Client Info		<b>19 Dec 2023</b>	10 Mar 2022	19 Jan 2021
Machine Age	hrs	Client Info		<b>3763</b>	0	2441
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	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

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

Iron	ppm	ASTM D5185(m)	>200	<b>11</b>	108	82
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>225	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

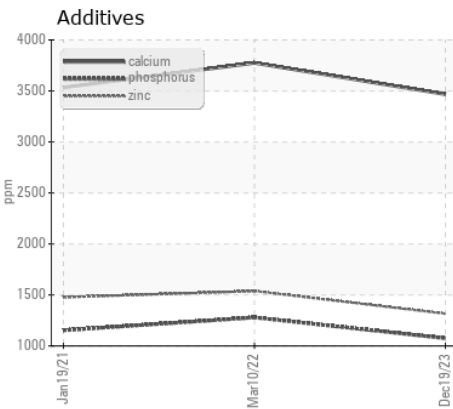
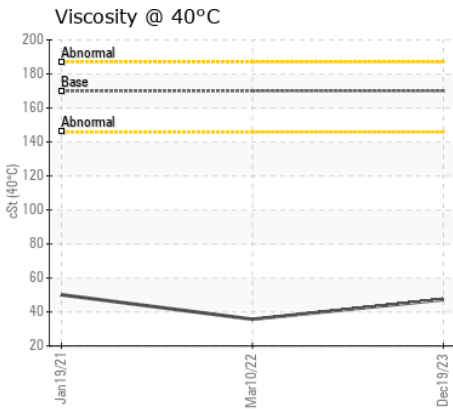
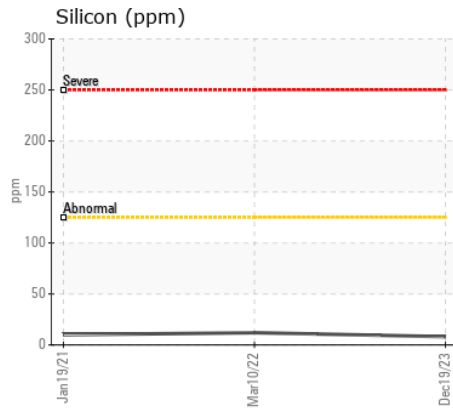
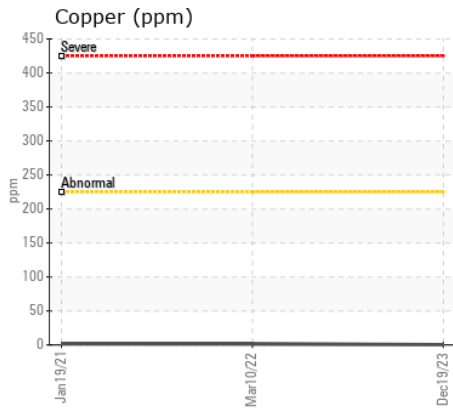
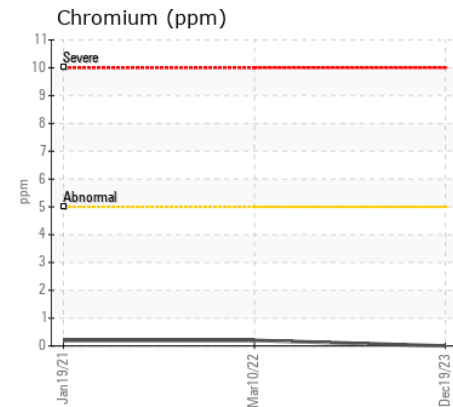
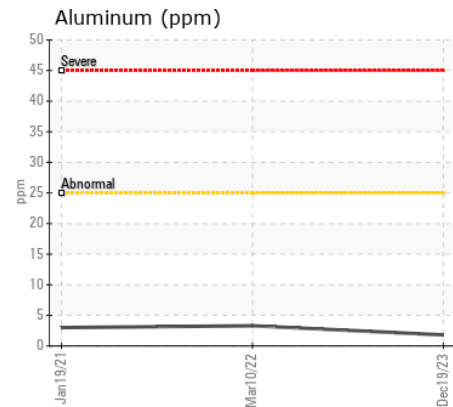
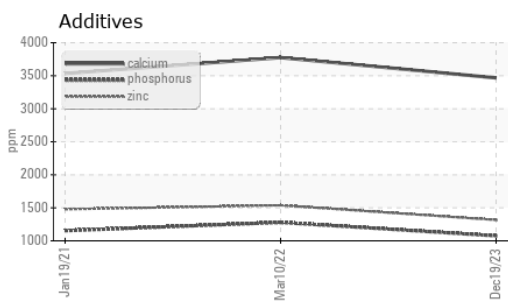
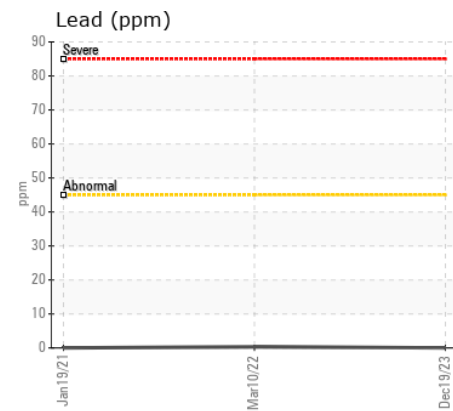
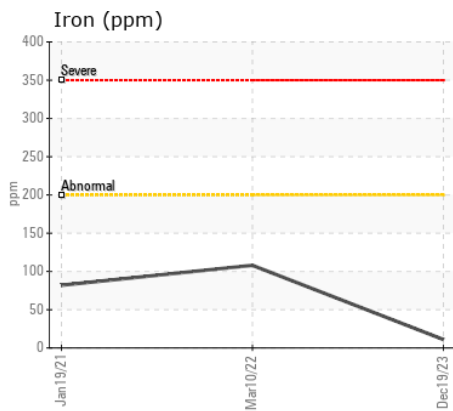
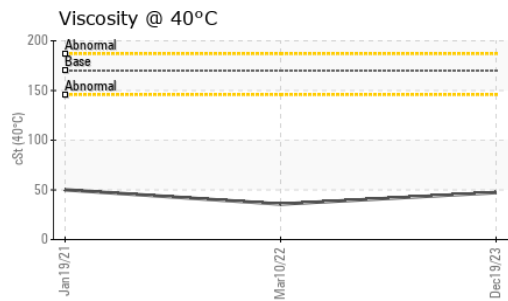
Il n'y a aucun indice de contamination dans le fluide.

Silicon	ppm	ASTM D5185(m)	>125	<b>8</b>	12	10
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	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

La viscosité de le fluide est inférieure à la viscosité type, ce qui pourrait indiquer l'ajout d'un grade d'huile plus léger. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'état de le fluide est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	9	10
Boron	ppm	ASTM D5185(m)	0	<b>96</b>	109	104
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	1	1
Magnesium	ppm	ASTM D5185(m)	<1	<b>20</b>	16	13
Calcium	ppm	ASTM D5185(m)	<1	<b>3467</b>	3775	3534
Phosphorus	ppm	ASTM D5185(m)	2143	<b>1075</b>	1279	1153
Zinc	ppm	ASTM D5185(m)	<1	<b>1316</b>	1538	1477
Sulfur	ppm	ASTM D5185(m)	23468	<b>3011</b>	3214	3734
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>47.3</b>	35.7	50.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0163407 **Received** : 12 Jan 2024  
**Lab Number** : 02608596 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 5709682 **Diagnostician** : Kevin Marson  
**Test Package** : MOBCE ( Additional Tests: Visual )

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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.