



LIEBHERR

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L550 070714-1825
Component
Front Left 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		LH0248555	---	---
Sample Date		Client Info		05 Dec 2023	---	---
Machine Age	hrs	Client Info		1384	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		None	---	---
Sample Status				ABNORMAL	---	---

WEAR

Usure de palier et (ou) de douille.

Iron	ppm	ASTM D5185(m)	>500	171	---	---
Chromium	ppm	ASTM D5185(m)	>8	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	2	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>5	2	---	---
Lead	ppm	ASTM D5185(m)	>5	4	---	---
Copper	ppm	ASTM D5185(m)	>50	▲ 133	---	---
Tin	ppm	ASTM D5185(m)		4	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

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

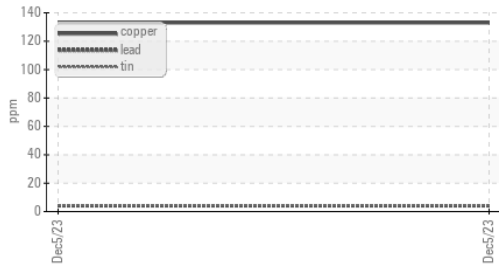
Silicon	ppm	ASTM D5185(m)	>25	17	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

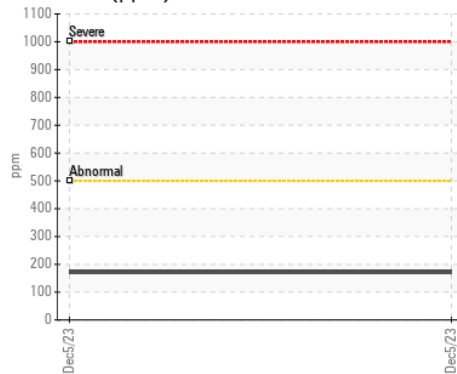
Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. La viscosité de l'échantillon se situe dans la portée de l'SAE 90; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		9	---	---
Boron	ppm	ASTM D5185(m)	0	2	---	---
Barium	ppm	ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	0	25	---	---
Magnesium	ppm	ASTM D5185(m)	<1	2	---	---
Calcium	ppm	ASTM D5185(m)	<1	8	---	---
Phosphorus	ppm	ASTM D5185(m)	2143	2191	---	---
Zinc	ppm	ASTM D5185(m)	<1	43	---	---
Sulfur	ppm	ASTM D5185(m)	23468	24928	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	190	---	---

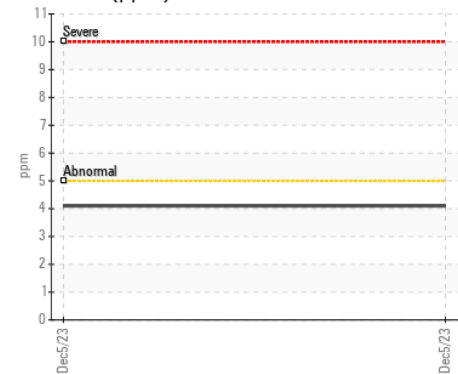
▲ Non-ferrous Metals



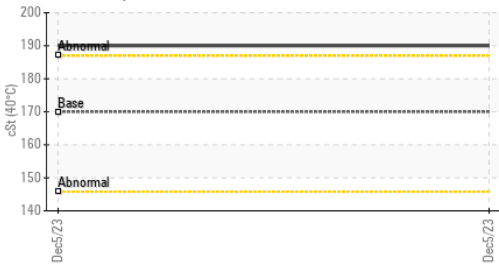
Iron (ppm)



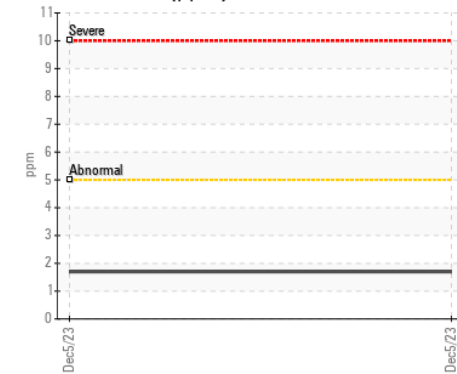
Lead (ppm)



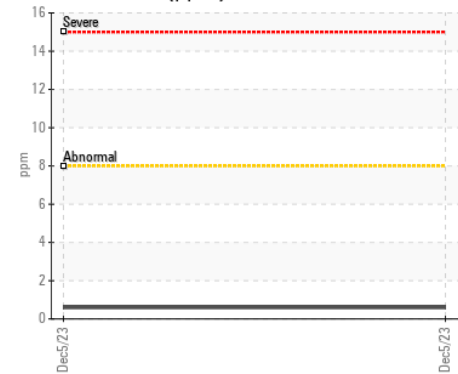
Viscosity @ 40°C



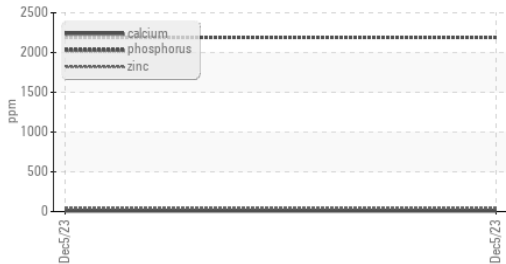
Aluminum (ppm)



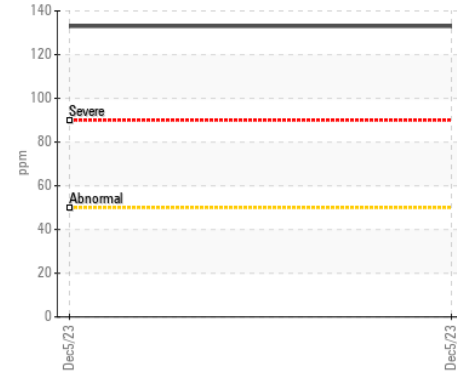
Chromium (ppm)



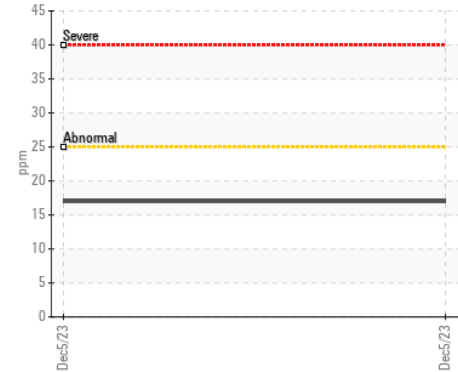
Additives



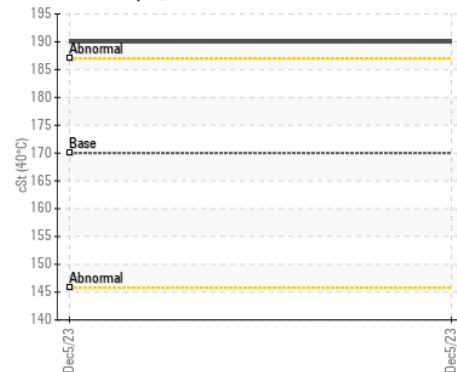
▲ Copper (ppm)



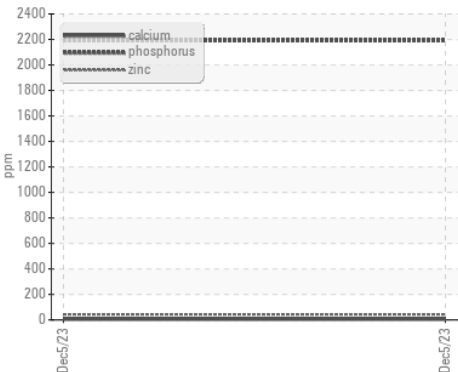
Silicon (ppm)



Viscosity @ 40°C



Additives



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0248555 **Received** : 10 Jan 2024
Lab Number : 02607904 **Diagnosed** : 11 Jan 2024
Unique Number : 5708990 **Diagnostician** : Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

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 T:
 F:

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.