



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L580 070558-1762
Component
Front Left Wheel Hub
Fluid
LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0218133	LH0275619	---
Sample Date		Client Info		12 Mar 2024	02 Jan 2024	---
Machine Age	hrs	Client Info		1460	797	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	110	264	---
Chromium	ppm	ASTM D5185(m)	>8	<1	1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<1	2	---
Lead	ppm	ASTM D5185(m)	>5	2	2	---
Copper	ppm	ASTM D5185(m)	>50	84	71	---
Tin	ppm	ASTM D5185(m)		6	12	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

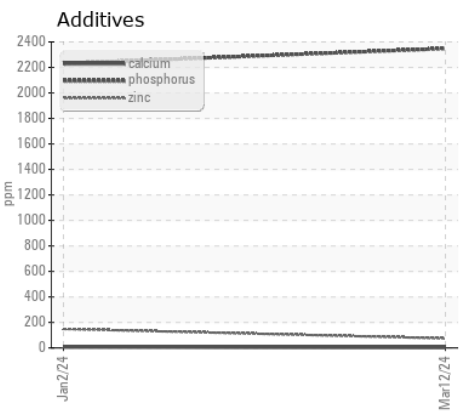
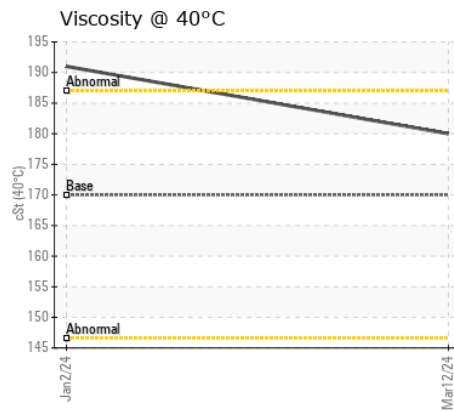
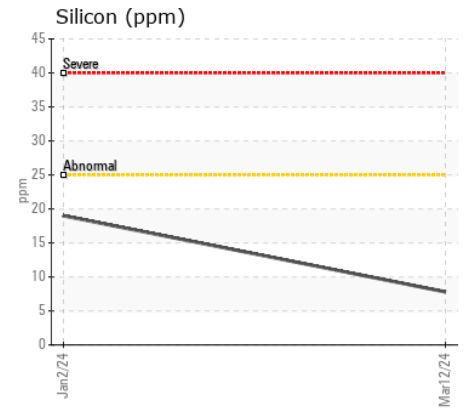
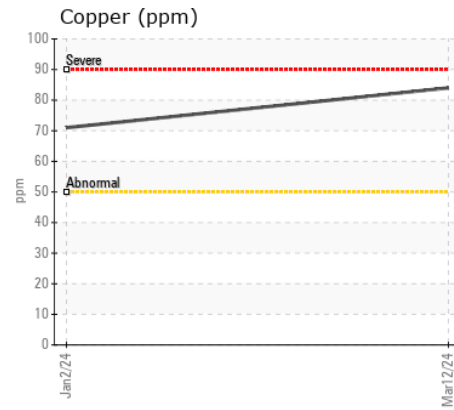
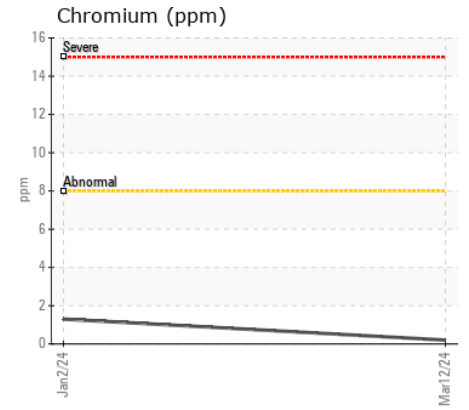
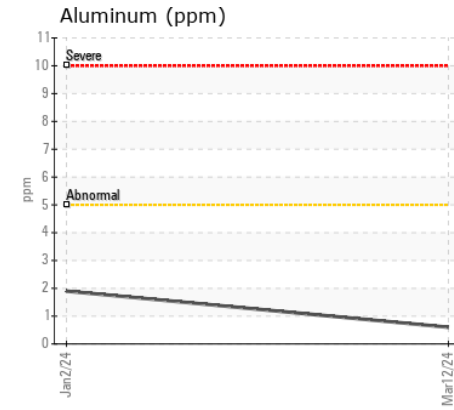
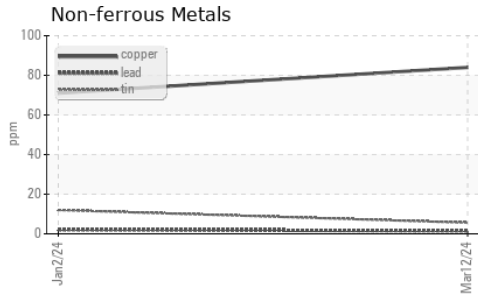
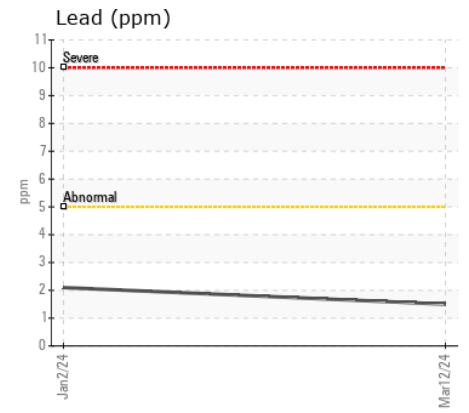
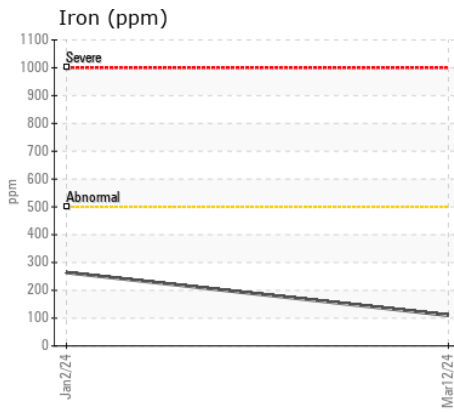
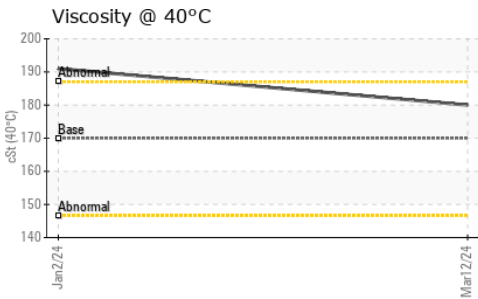
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	19	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	9	---
Boron	ppm	ASTM D5185(m)	0	<1	1	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	20	65	---
Magnesium	ppm	ASTM D5185(m)	<1	1	2	---
Calcium	ppm	ASTM D5185(m)	<1	4	9	---
Phosphorus	ppm	ASTM D5185(m)	2143	2348	2231	---
Zinc	ppm	ASTM D5185(m)	<1	75	149	---
Sulfur	ppm	ASTM D5185(m)	23468	26016	25331	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	180	191	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0218133 **Received** : 28 Mar 2024
Lab Number : 02625364 **Tested** : 28 Mar 2024
Unique Number : 5750483 **Diagnosed** : 28 Mar 2024 - Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

HUBERT ET FILS INC
 1012 CHEMIN DE PARC INDUSTRIEL
 BOIS-FRANC, QC
 CA J9E 3A9
 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.

T:
F: