



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L566 071183-1758
Component
Front Differential
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		LH0251930	LH0260617	---
Sample Date		Client Info		29 Dec 2023	19 May 2023	---
Machine Age	hrs	Client Info		3102	1190	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1200	103	370	---
Chromium	ppm	ASTM D5185(m)	>20	<1	3	---
Nickel	ppm	ASTM D5185(m)	>4	2	▲ 11	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<1	2	---
Lead	ppm	ASTM D5185(m)	>4	<1	6	---
Copper	ppm	ASTM D5185(m)	>40	28	▲ 214	---
Tin	ppm	ASTM D5185(m)	>4	2	10	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

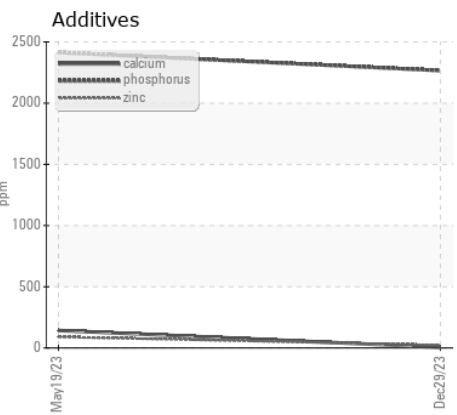
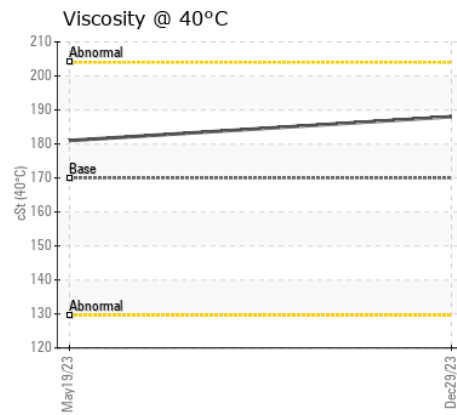
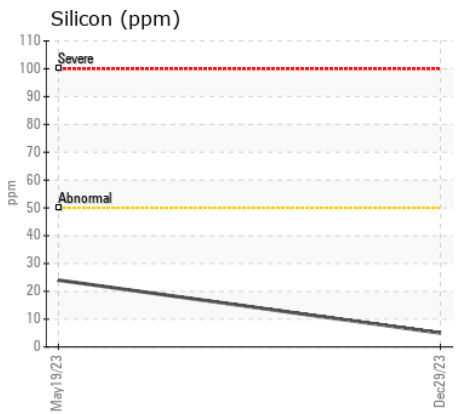
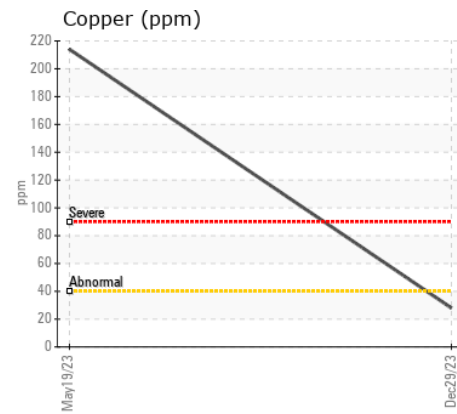
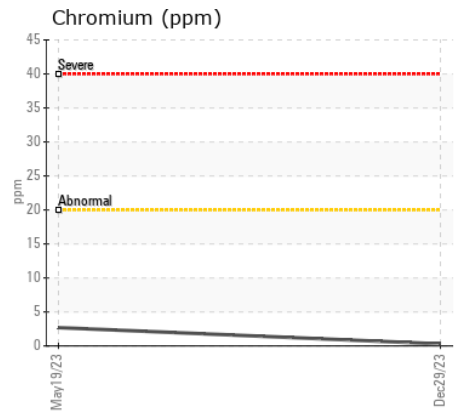
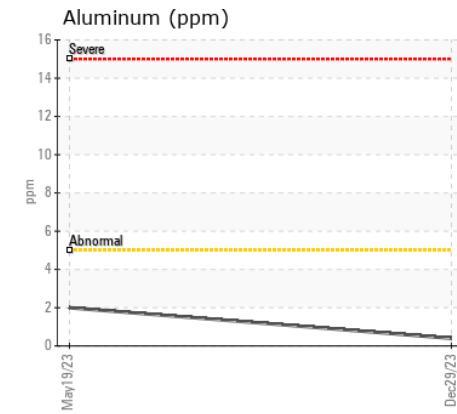
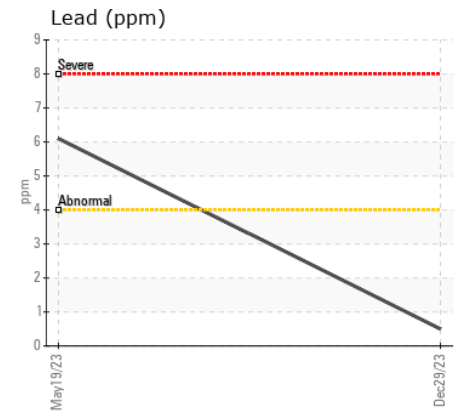
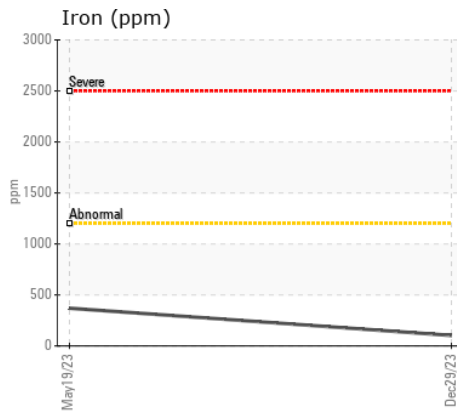
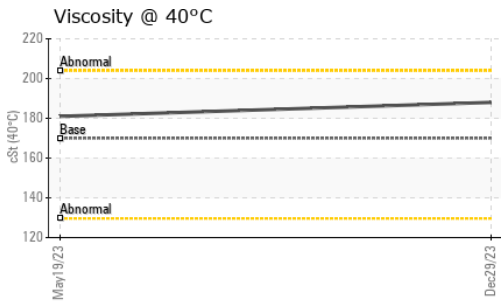
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	5	24	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	8	---
Boron	ppm	ASTM D5185(m)	0	<1	5	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	6	42	---
Magnesium	ppm	ASTM D5185(m)	<1	<1	2	---
Calcium	ppm	ASTM D5185(m)	<1	6	143	---
Phosphorus	ppm	ASTM D5185(m)	2143	2266	2414	---
Zinc	ppm	ASTM D5185(m)	<1	23	90	---
Sulfur	ppm	ASTM D5185(m)	23468	25312	26565	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	188	181	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0251930 **Received** : 08 Jan 2024
Lab Number : 02607255 **Diagnosed** : 09 Jan 2024
Unique Number : 5708341 **Diagnostician** : Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

Abbycel Substrate Ltd.
 3545 Ross Road
 Abbotsford, BC
 CA V4X 1M6
 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: