



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L580 071613-1760
Component
Front Differential
Fluid
LIEBHERR GEAR BASIC 90 LS (50 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0292405	LH0277087	---
Sample Date		Client Info		22 Jun 2024	14 Oct 2023	---
Machine Age	hrs	Client Info		2202	1054	---
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)	>800	135	213	---
Chromium	ppm	ASTM D5185(m)	>10	2	2	---
Nickel	ppm	ASTM D5185(m)	>4	<1	1	---
Titanium	ppm	ASTM D5185(m)	>8	0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	---
Lead	ppm	ASTM D5185(m)	>10	1	4	---
Copper	ppm	ASTM D5185(m)	>100	69	163	---
Tin	ppm	ASTM D5185(m)	>5	5	8	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

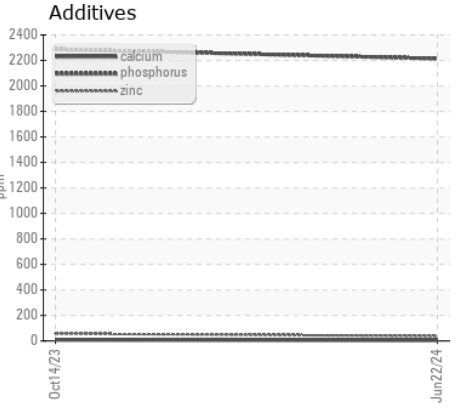
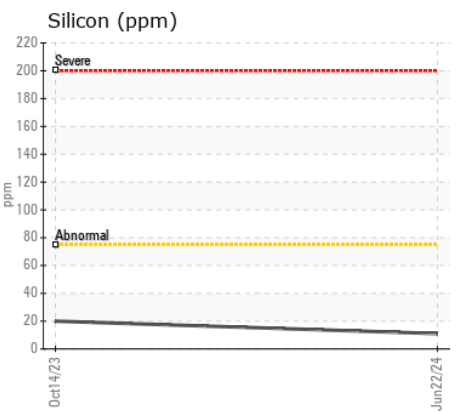
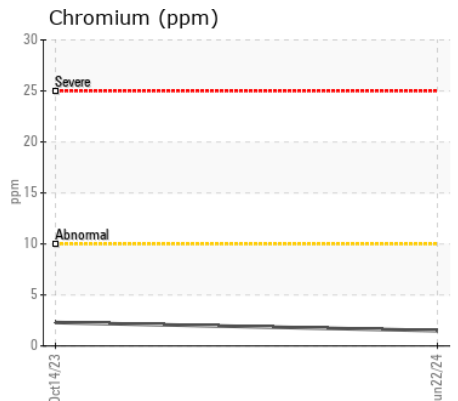
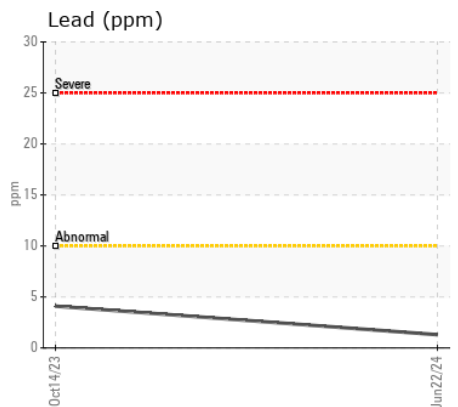
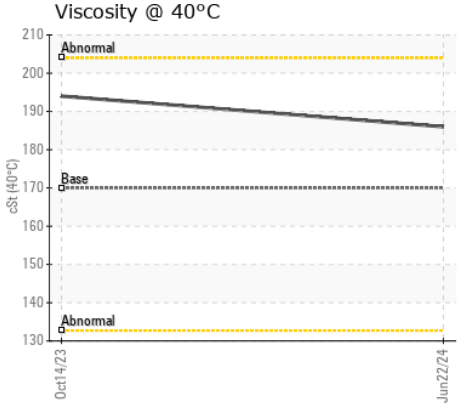
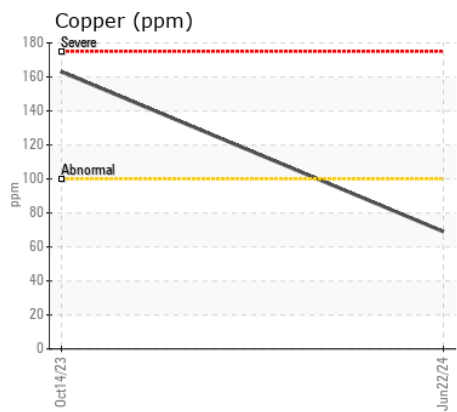
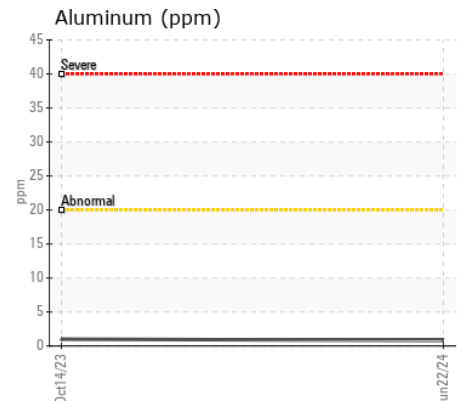
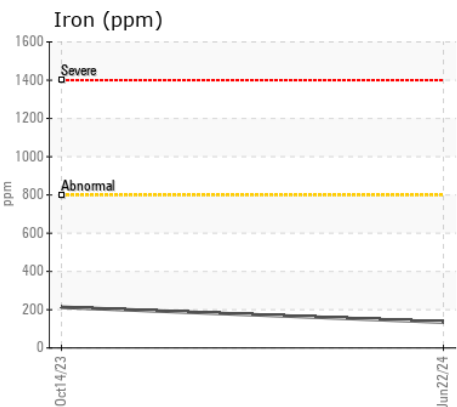
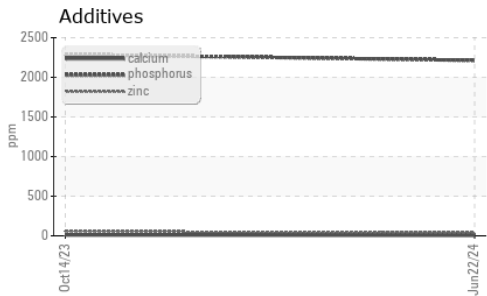
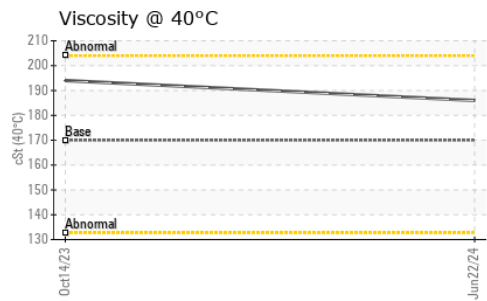
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	11	20	---
Potassium	ppm	ASTM D5185(m)	>20	1	<1	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
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

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		5	5	---
Boron	ppm	ASTM D5185(m)	0	2	3	---
Barium	ppm	ASTM D5185(m)	0	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	29	56	---
Magnesium	ppm	ASTM D5185(m)	<1	1	3	---
Calcium	ppm	ASTM D5185(m)	<1	6	10	---
Phosphorus	ppm	ASTM D5185(m)	2143	2214	2288	---
Zinc	ppm	ASTM D5185(m)	<1	38	57	---
Sulfur	ppm	ASTM D5185(m)	23468	24605	25763	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	186	194	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0292405 **Received** : 28 Jun 2024
Lab Number : 02644661 **Tested** : 02 Jul 2024
Unique Number : 5802200 **Diagnosed** : 02 Jul 2024 - Kevin Marson
Test Package : MOB 1

BIRCH HILL CONSTRUCTION
 11 MCELROY ST.
 MONCTON, NB
 CA E1C 9T2
 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: