



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L580 071613-1760
Component
Rear 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		LH0292404	LH0277088	---
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		N/A	N/A	---
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	102	179	---
Chromium	ppm	ASTM D5185(m)	>10	1	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	47	143	---
Tin	ppm	ASTM D5185(m)	>5	4	7	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

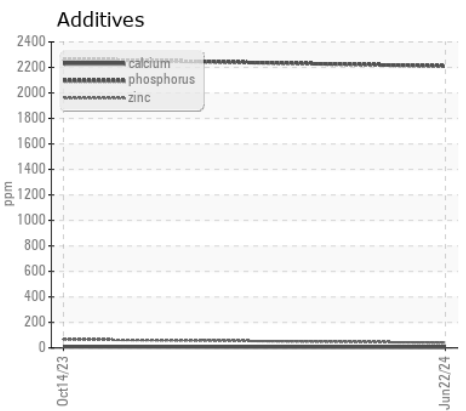
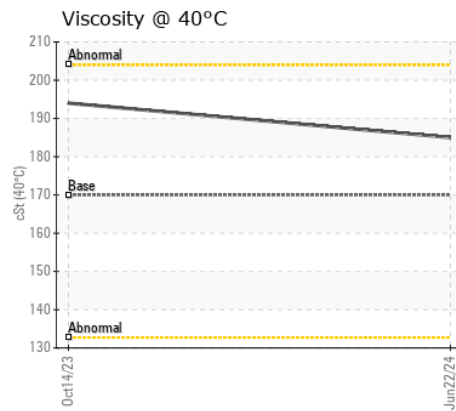
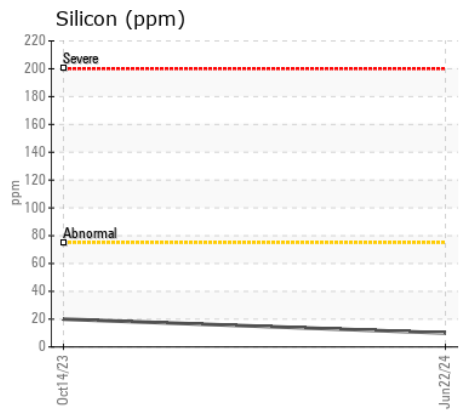
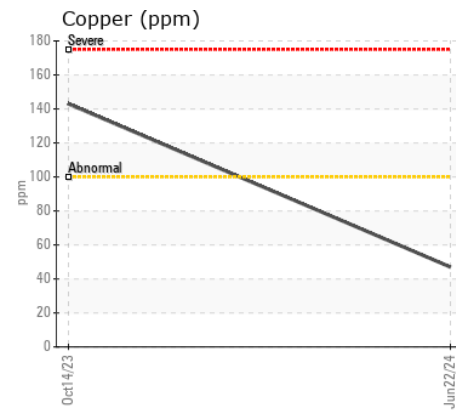
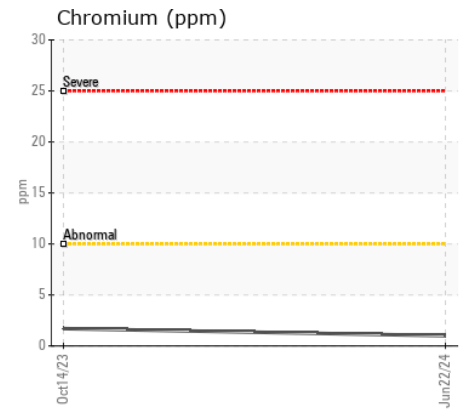
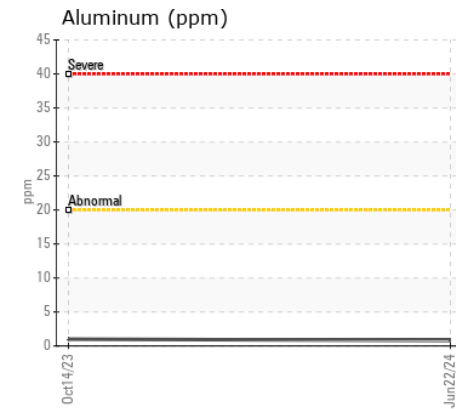
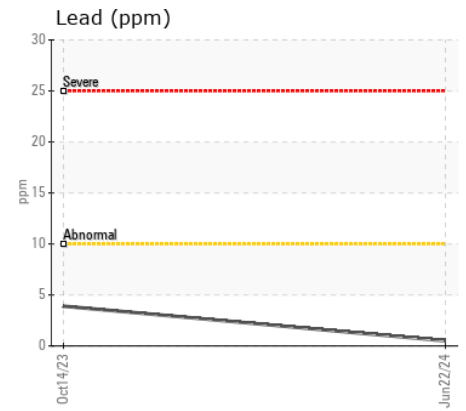
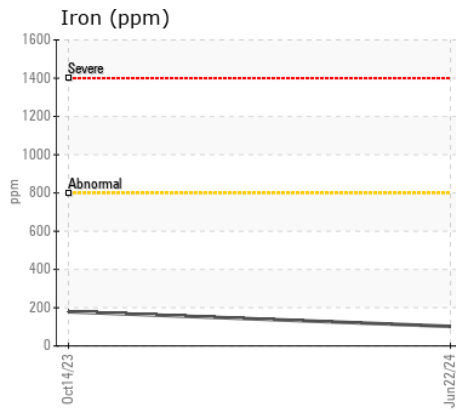
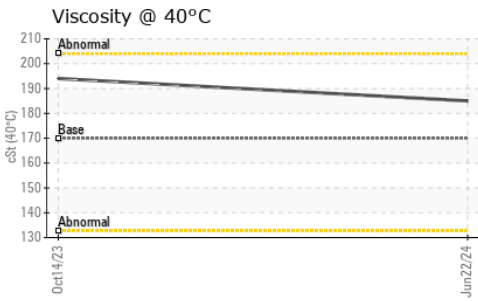
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	10	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

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

Sodium	ppm	ASTM D5185(m)		2	6	---
Boron	ppm	ASTM D5185(m)	0	<1	1	---
Barium	ppm	ASTM D5185(m)	0	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	19	43	---
Magnesium	ppm	ASTM D5185(m)	<1	<1	1	---
Calcium	ppm	ASTM D5185(m)	<1	6	11	---
Phosphorus	ppm	ASTM D5185(m)	2143	2210	2265	---
Zinc	ppm	ASTM D5185(m)	<1	41	67	---
Sulfur	ppm	ASTM D5185(m)	23468	24558	26022	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	185	194	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0292404 **Received** : 28 Jun 2024
Lab Number : 02644662 **Tested** : 02 Jul 2024
Unique Number : 5802201 **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.

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F: