



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 1216-98210
Component
Front Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290692	LHMC103350	---
Sample Date		Client Info		27 May 2024	19 Oct 2018	---
Machine Age	hrs	Client Info		1000	1875	---
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	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	3	4	---
Chromium	ppm	ASTM D5185(m)	>2	0	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>4	0	0	---
Aluminum	ppm	ASTM D5185(m)	>7	0	0	---
Lead	ppm	ASTM D5185(m)	>4	0	0	---
Copper	ppm	ASTM D5185(m)	>135	4	11	---
Tin	ppm	ASTM D5185(m)	>3	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

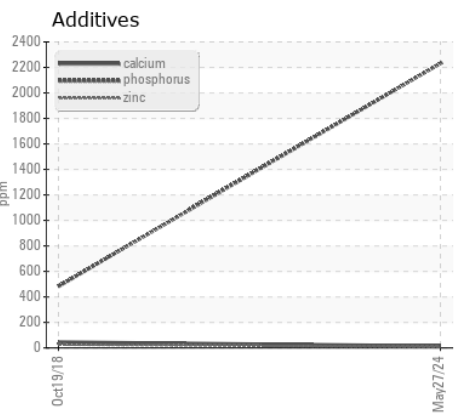
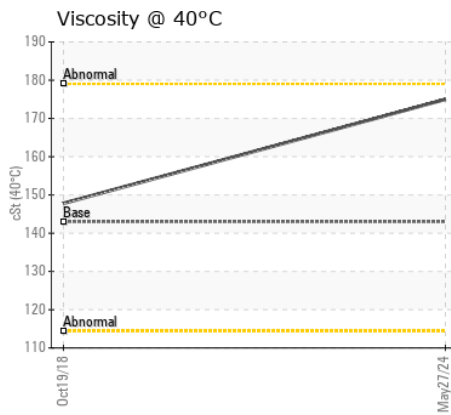
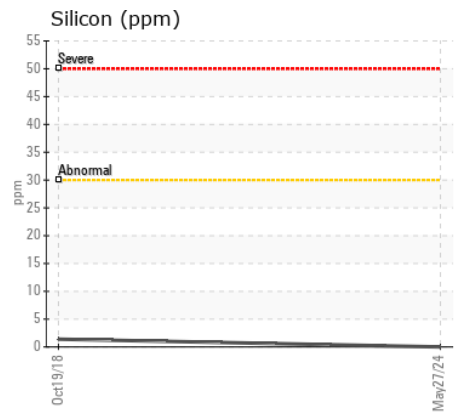
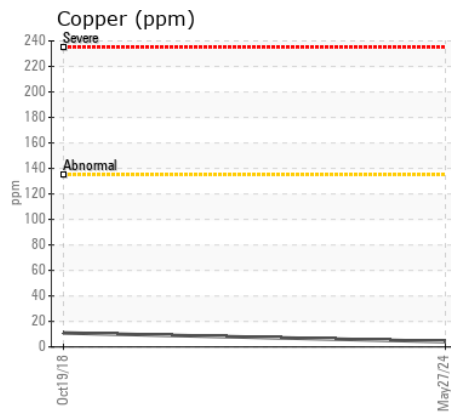
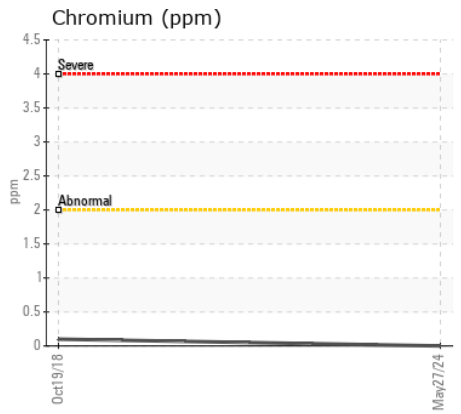
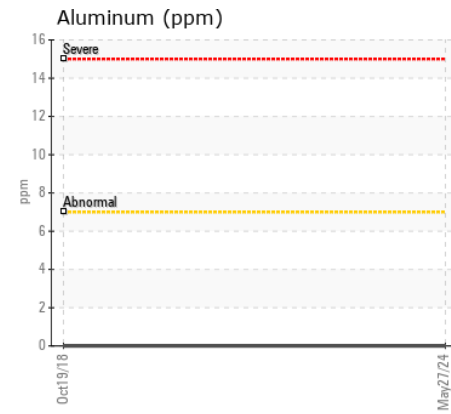
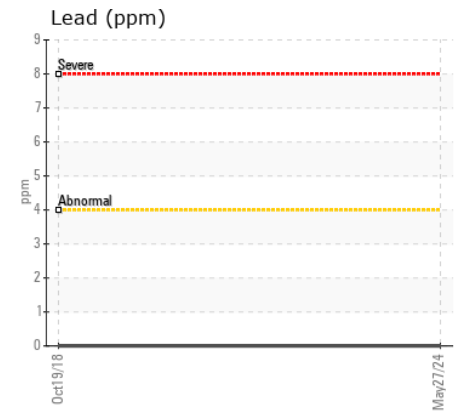
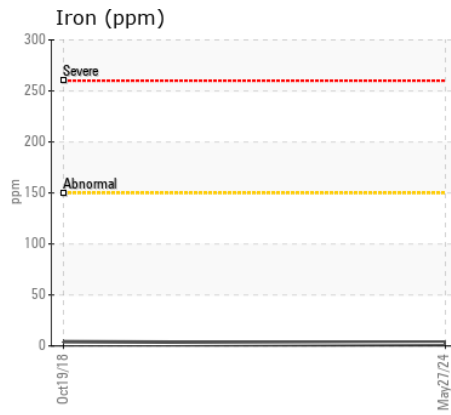
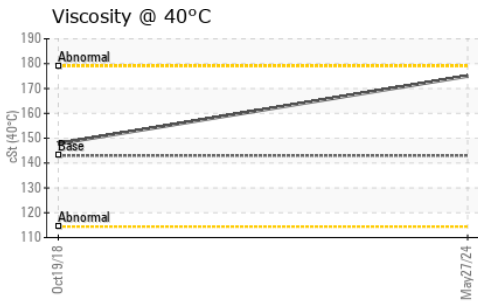
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	0	1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Water		WC Method	>0.2	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*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>170	2	1	---
Boron	ppm	ASTM D5185(m)	400	1	4	---
Barium	ppm	ASTM D5185(m)	200	0	6	---
Molybdenum	ppm	ASTM D5185(m)	12	0	12	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	12	2	4	---
Calcium	ppm	ASTM D5185(m)	150	15	46	---
Phosphorus	ppm	ASTM D5185(m)	1650	2232	484	---
Zinc	ppm	ASTM D5185(m)	125	8	26	---
Sulfur	ppm	ASTM D5185(m)	22500	31217	14543	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	175	147.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0290692 **Received** : 04 Jun 2024
Lab Number : 02639689 **Tested** : 05 Jun 2024
Unique Number : 5788851 **Diagnosed** : 05 Jun 2024 - Wes Davis
Test Package : MOB 1

SIMS BROTHERS
 1011 S. PROSPECT ST
 MARION, OH
 US 43302
 Contact: BOB LANCE

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: