



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 139969-1253
Component
Swing Drive
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		LH0289812	LH	---
Sample Date		Client Info		15 May 2024	19 Oct 2023	---
Machine Age	hrs	Client Info		930	480	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	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)	>1450	151	177	---
Chromium	ppm	ASTM D5185(m)	>11	<1	1	---
Nickel	ppm	ASTM D5185(m)	>3	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>4	<1	1	---
Lead	ppm	ASTM D5185(m)	>4	<1	2	---
Copper	ppm	ASTM D5185(m)	>542	44	63	---
Tin	ppm	ASTM D5185(m)	>38	4	5	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

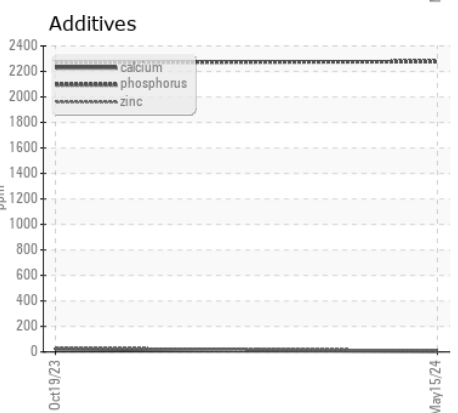
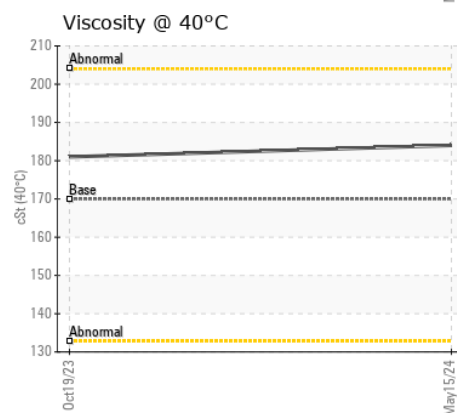
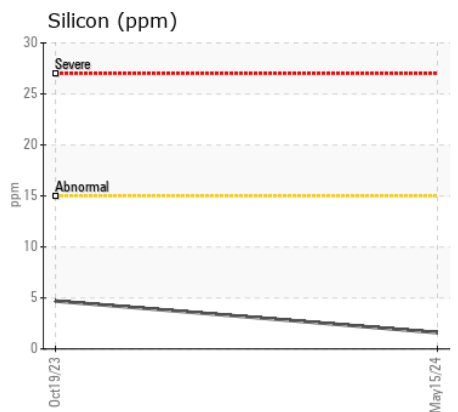
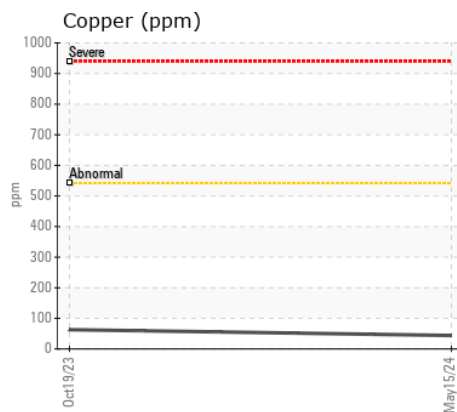
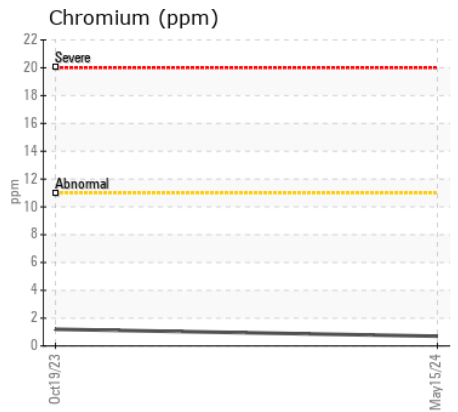
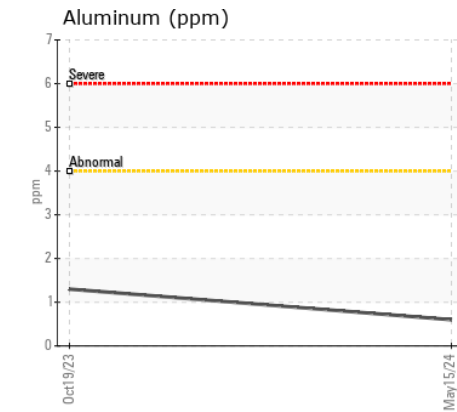
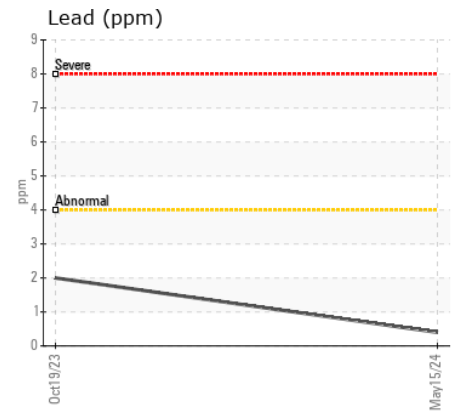
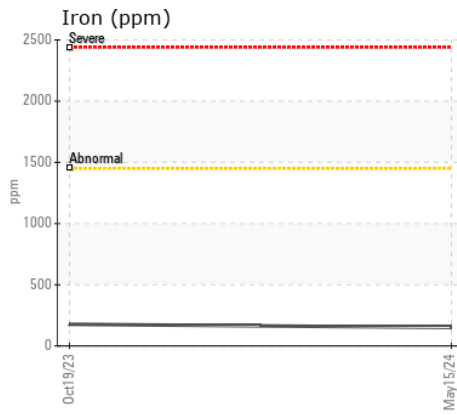
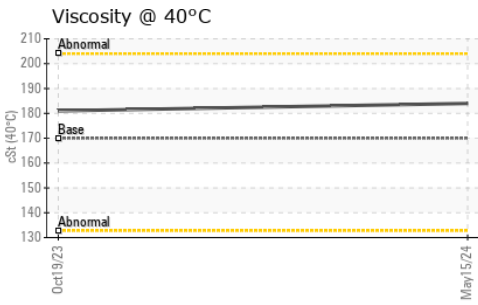
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	2	5	---
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)		2	3	---
Boron	ppm	ASTM D5185(m)	0	3	14	---
Barium	ppm	ASTM D5185(m)	0	1	6	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	1	2	---
Magnesium	ppm	ASTM D5185(m)	<1	<1	1	---
Calcium	ppm	ASTM D5185(m)	<1	6	24	---
Phosphorus	ppm	ASTM D5185(m)	2143	2277	2271	---
Zinc	ppm	ASTM D5185(m)	<1	12	30	---
Sulfur	ppm	ASTM D5185(m)	23468	25232	26779	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	184	181	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289812 **Received** : 21 May 2024
Lab Number : 02636720 **Tested** : 21 May 2024
Unique Number : 5785882 **Diagnosed** : 21 May 2024 - Wes Davis
Test Package : MOB 1

METAUX 139 INC.
 86 RTE MARIE-VICTORIN
 PIERREVILLE, QC
 CA J0G 1J0
 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: