



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 090077
Component
Swing Drive
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

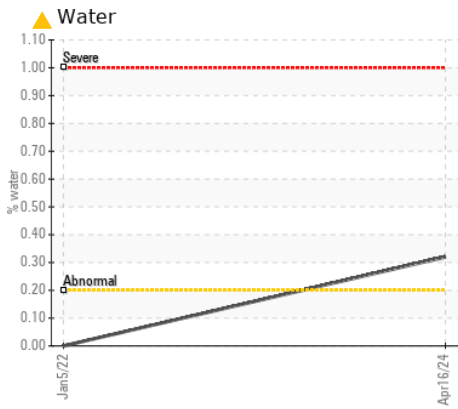
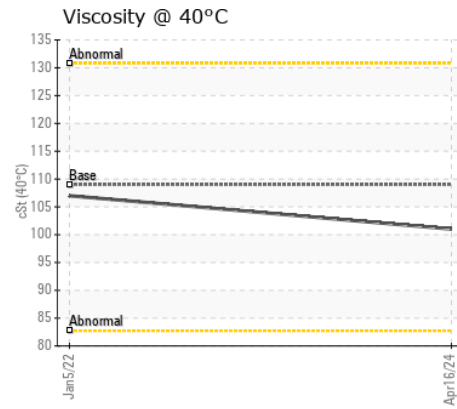
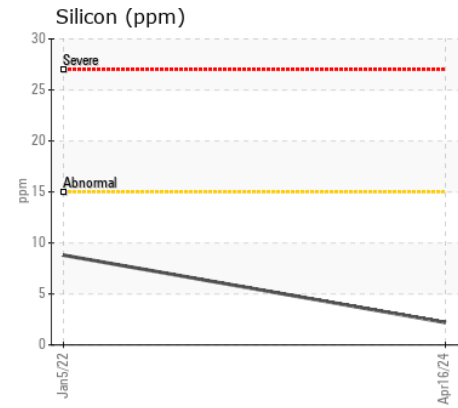
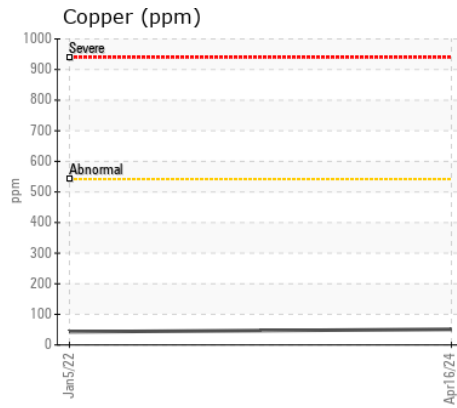
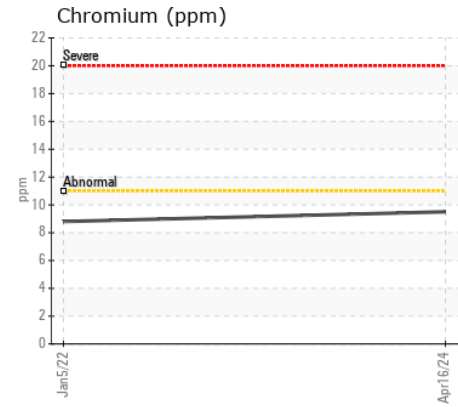
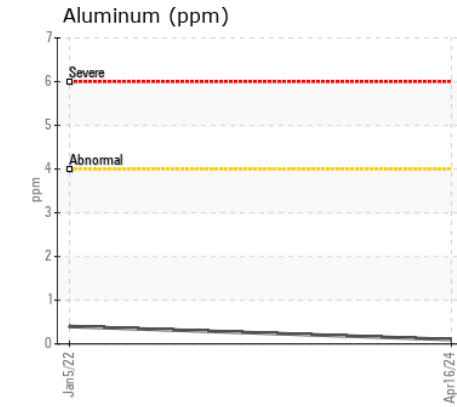
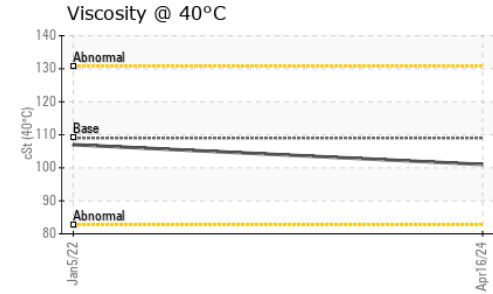
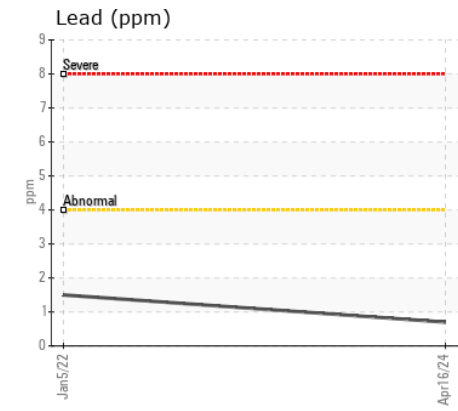
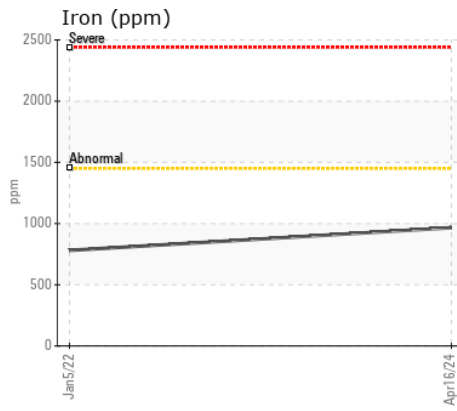
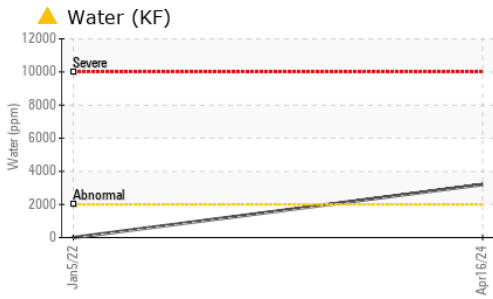
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0276294	LH	---
Sample Date		Client Info		16 Apr 2024	05 Jan 2022	---
Machine Age	hrs	Client Info		6756	5072	---
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	None	---
Sample Status				ABNORMAL	ABNORMAL	---

Iron	ppm	ASTM D5185(m)	>1450	966	781	---
Chromium	ppm	ASTM D5185(m)	>11	10	9	---
Nickel	ppm	ASTM D5185(m)	>3	2	<1	---
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	51	43	---
Tin	ppm	ASTM D5185(m)	>38	1	2	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

Silicon	ppm	ASTM D5185(m)	>15	2	9	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Water	%	ASTM D6304*	>0.2	▲ 0.320	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 3206	---	---
Silt	scalar	Visual*	NONE	LIGHT	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	▲ LAYRD	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .5%	▲ .5%	---

Sodium	ppm	ASTM D5185(m)		1	<1	---
Boron	ppm	ASTM D5185(m)	400	180	105	---
Barium	ppm	ASTM D5185(m)	200	0	0	---
Molybdenum	ppm	ASTM D5185(m)	12	0	<1	---
Manganese	ppm	ASTM D5185(m)		8	7	---
Magnesium	ppm	ASTM D5185(m)	12	2	2	---
Calcium	ppm	ASTM D5185(m)	150	13	15	---
Phosphorus	ppm	ASTM D5185(m)	1650	1208	1286	---
Zinc	ppm	ASTM D5185(m)	125	32	28	---
Sulfur	ppm	ASTM D5185(m)	22500	20554	21183	---
Visc @ 40°C	cSt	ASTM D7279(m)	109	101	107	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0276294 **Received** : 17 Apr 2024
Lab Number : 02629789 **Tested** : 19 Apr 2024
Unique Number : 5762921 **Diagnosed** : 19 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KF)

ELG Canada
 4375 CORPORATE DRIVE
 BURLINGTON, ON
 CA L7L 5P7
 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:
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