



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR 054895-1511
Component
Swing Drive
Fluid
LIEBHERR GEAR BASIC 90 LS (4 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289349	---	---
Sample Date		Client Info		21 May 2024	---	---
Machine Age	hrs	Client Info		870	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>750	361	---	---
Chromium	ppm	ASTM D5185(m)	>10	2	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	3	---	---
Lead	ppm	ASTM D5185(m)	>5	3	---	---
Copper	ppm	ASTM D5185(m)	>250	134	---	---
Tin	ppm	ASTM D5185(m)	>10	16	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

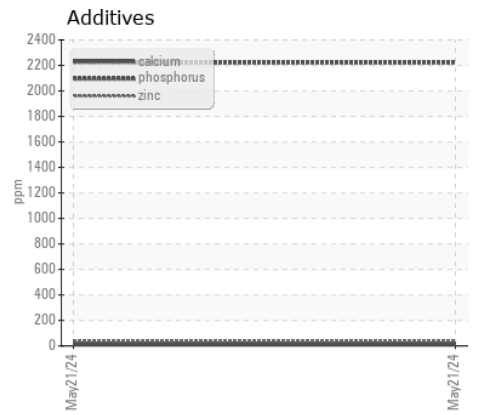
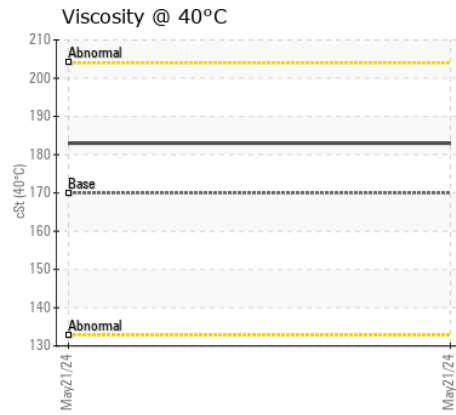
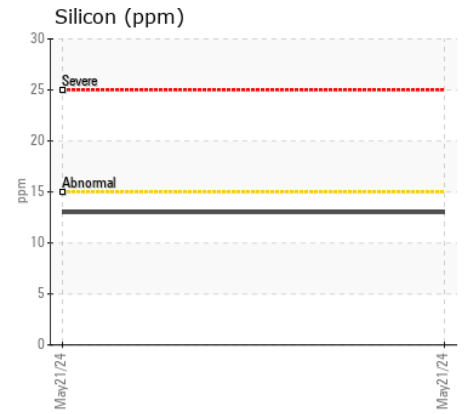
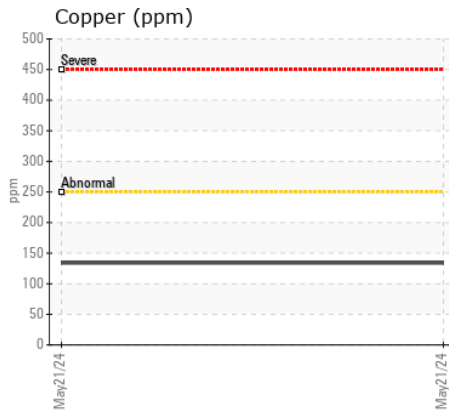
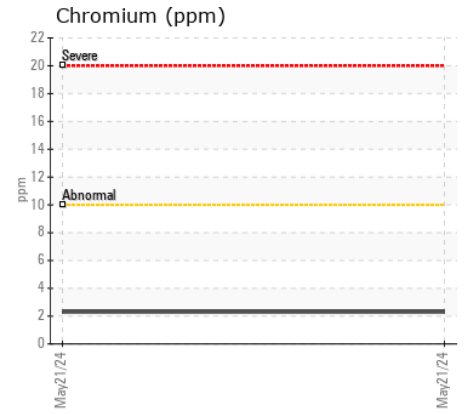
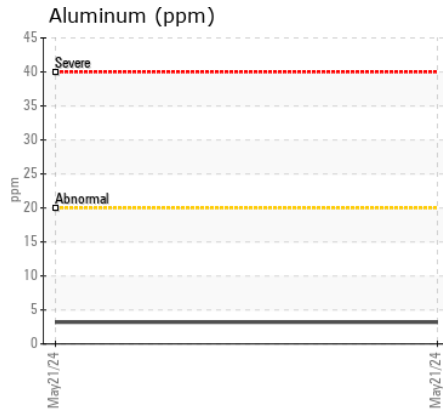
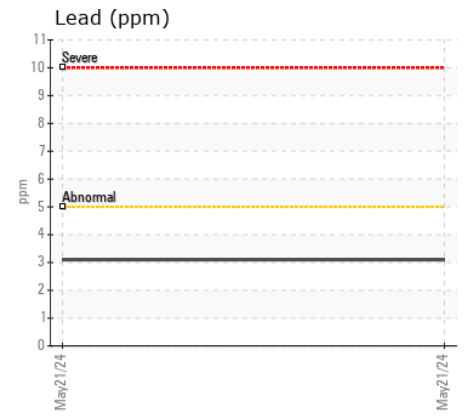
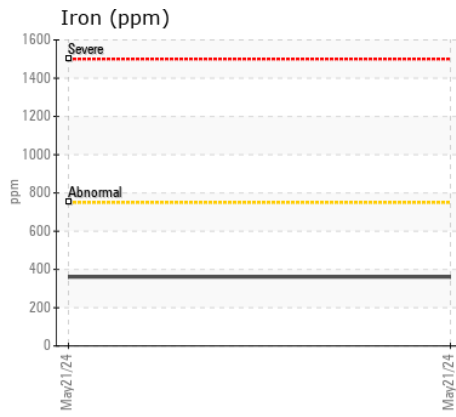
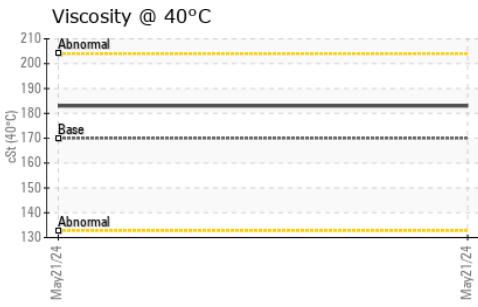
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	13	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		5	---	---
Boron	ppm	ASTM D5185(m)	0	22	---	---
Barium	ppm	ASTM D5185(m)	0	4	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	0	3	---	---
Magnesium	ppm	ASTM D5185(m)	<1	<1	---	---
Calcium	ppm	ASTM D5185(m)	<1	14	---	---
Phosphorus	ppm	ASTM D5185(m)	2143	2222	---	---
Zinc	ppm	ASTM D5185(m)	<1	37	---	---
Sulfur	ppm	ASTM D5185(m)	23468	26644	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	183	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289349
Lab Number : 02636984
Unique Number : 5786146
Test Package : MOB 1

Received : 22 May 2024
Tested : 22 May 2024
Diagnosed : 22 May 2024 - Kevin Marson

12531992 ONTARIO INC.
 64 ELLIOTT ROAD
 STERLING, ON
 CA K0K 3E0
 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: