



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 153712-1253
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		LH	LH	---
Sample Date		Client Info		30 Apr 2024	14 Dec 2023	---
Machine Age	hrs	Client Info		1001	500	---
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	Not Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1450	138	230	---
Chromium	ppm	ASTM D5185(m)	>11	<1	2	---
Nickel	ppm	ASTM D5185(m)	>3	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>4	<1	2	---
Lead	ppm	ASTM D5185(m)	>4	<1	2	---
Copper	ppm	ASTM D5185(m)	>542	42	56	---
Tin	ppm	ASTM D5185(m)	>38	3	4	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

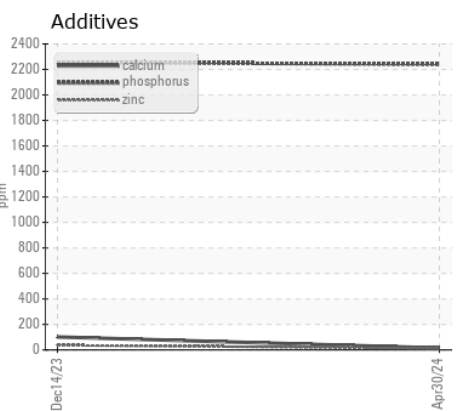
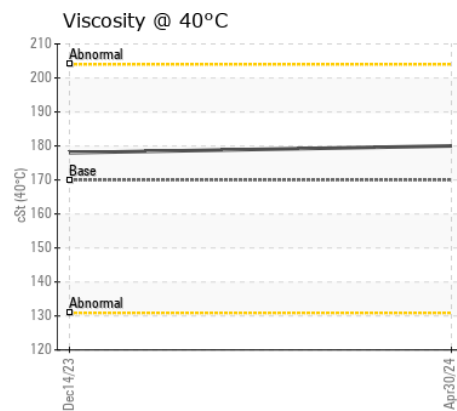
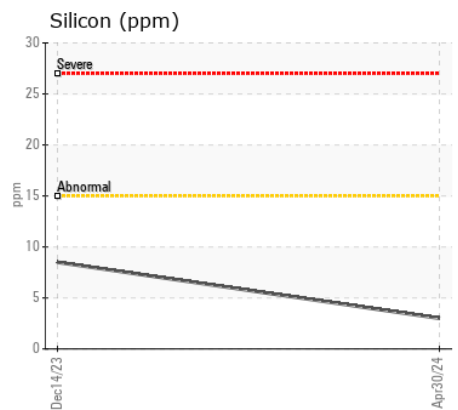
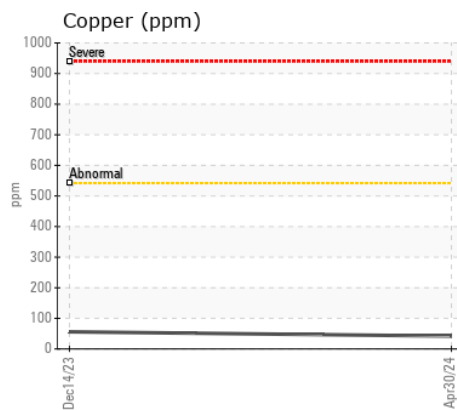
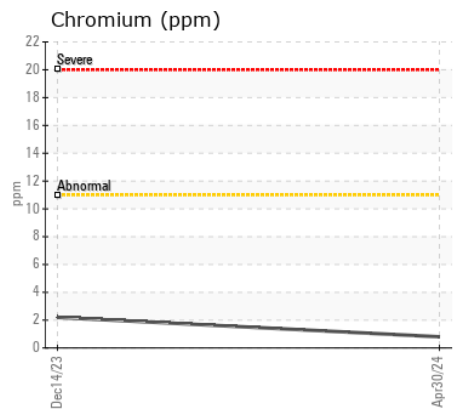
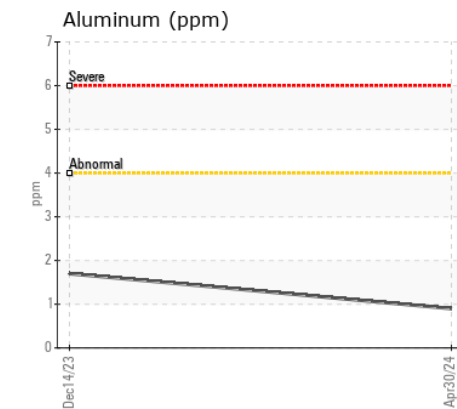
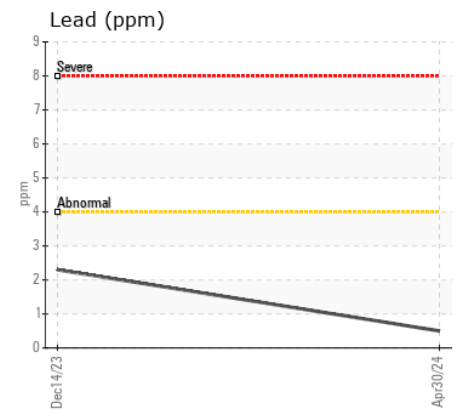
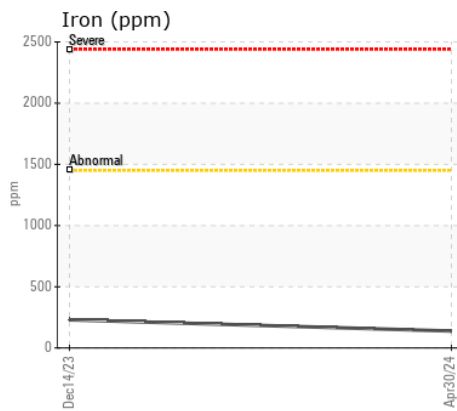
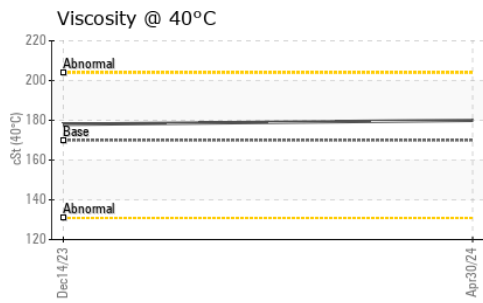
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	3	8	---
Potassium	ppm	ASTM D5185(m)	>20	6	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
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)		5	7	---
Boron	ppm	ASTM D5185(m)	0	3	4	---
Barium	ppm	ASTM D5185(m)	0	2	13	---
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	15	102	---
Phosphorus	ppm	ASTM D5185(m)	2143	2240	2256	---
Zinc	ppm	ASTM D5185(m)	<1	11	37	---
Sulfur	ppm	ASTM D5185(m)	23468	25265	24853	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	180	178	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 03 May 2024
Lab Number : 02633245 **Tested** : 03 May 2024
Unique Number : 5774398 **Diagnosed** : 03 May 2024 - Wes Davis
Test Package : MOB 1

Innovation Industrielle Boivin Inc.
 2205 de la Fonderie
 Chicoutimi, QC
 CA G7H 8B9
 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: