



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH60M 143695-1475
Component
Diesel Engine
Fluid
SAE 5W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0248606	LH0248603	---
Sample Date		Client Info		19 Apr 2024	26 Jan 2024	---
Machine Age	hrs	Client Info		1001	546	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	6	10	---
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>15	2	3	---
Lead	ppm	ASTM D5185(m)	>30	<1	8	---
Copper	ppm	ASTM D5185(m)	>125	34	253	---
Tin	ppm	ASTM D5185(m)	>5	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

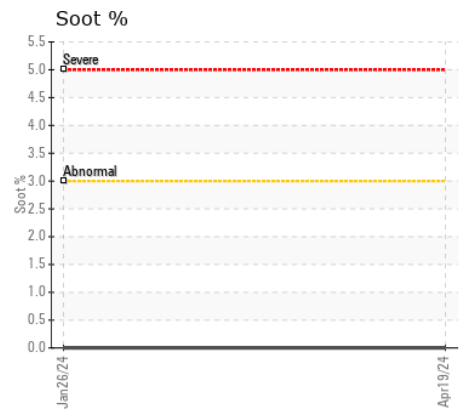
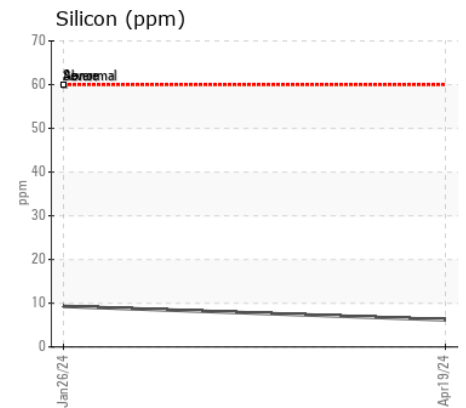
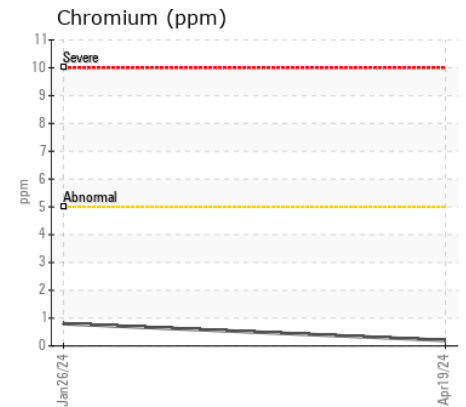
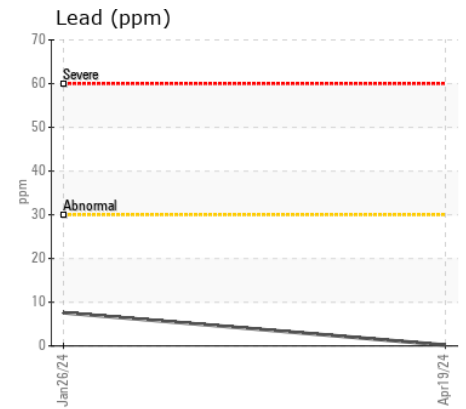
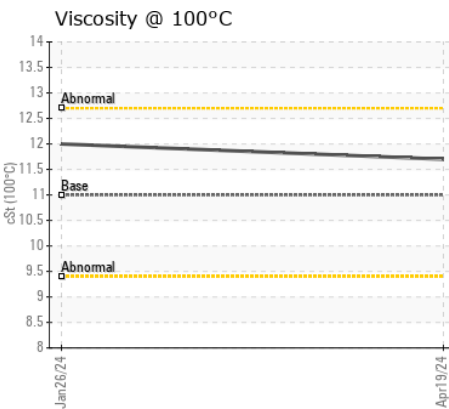
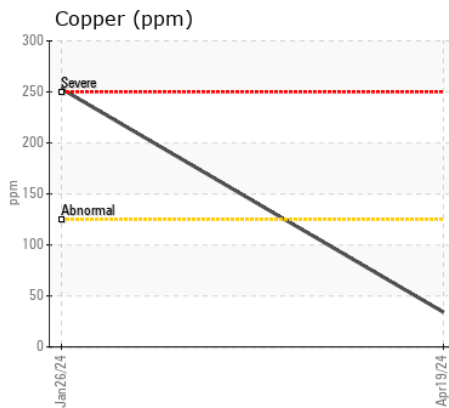
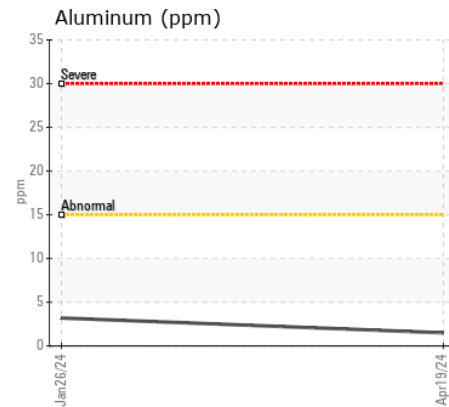
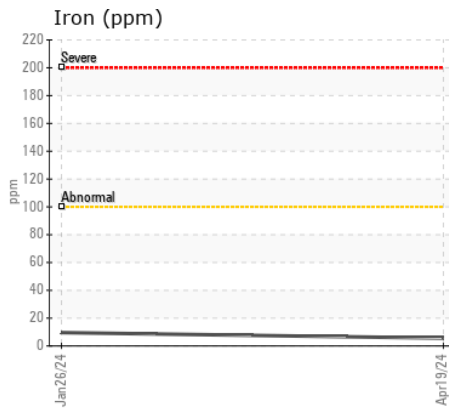
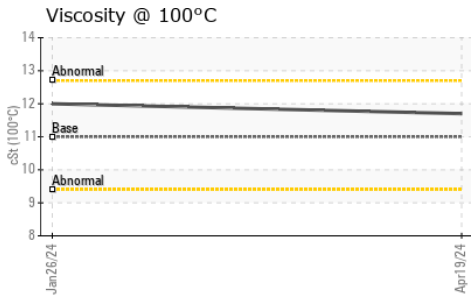
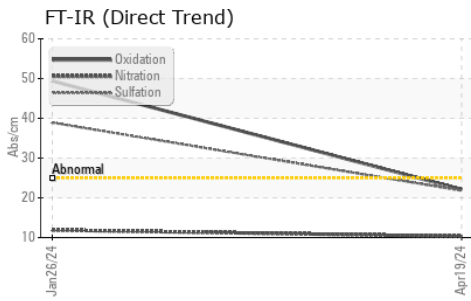
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	6	9	---
Potassium	ppm	ASTM D5185(m)	>20	<1	3	---
Fuel		WC Method	>5	<1.0	0.8	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.3	11.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	38.9	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	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)		4	2	---
Boron	ppm	ASTM D5185(m)		35	93	---
Barium	ppm	ASTM D5185(m)		2	25	---
Molybdenum	ppm	ASTM D5185(m)		58	48	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		1112	942	---
Calcium	ppm	ASTM D5185(m)		870	1309	---
Phosphorus	ppm	ASTM D5185(m)		995	746	---
Zinc	ppm	ASTM D5185(m)		1198	884	---
Sulfur	ppm	ASTM D5185(m)		2627	2070	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.1	49.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	11.7	12.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0248606 **Received** : 26 Apr 2024
Lab Number : 02631534 **Tested** : 26 Apr 2024
Unique Number : 5772687 **Diagnosed** : 26 Apr 2024 - Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

Groupe Label Inc
 21 rue St-Joseph
 Saint-Michel-de-Squatec, QC
 CA G0L 4H0
 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: