



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR TA230 142809
Component
Diesel Engine
Fluid
LIEBHERR MOTOROIL 5W30 (40 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289835	---	---
Sample Date		Client Info		10 May 2024	---	---
Machine Age	hrs	Client Info		1296	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	4	---	---
Chromium	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>15	3	---	---
Lead	ppm	ASTM D5185(m)	>30	0	---	---
Copper	ppm	ASTM D5185(m)	>125	12	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

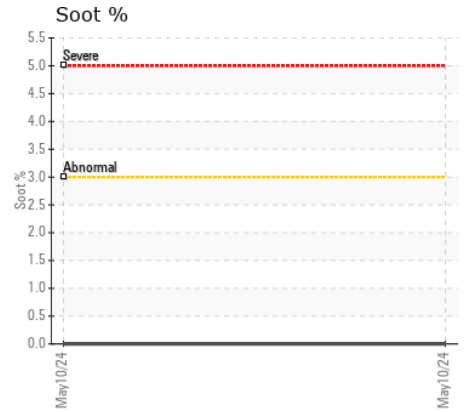
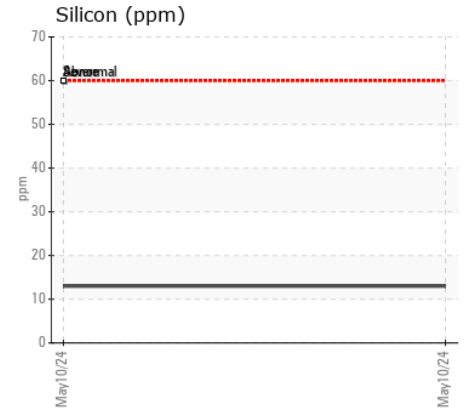
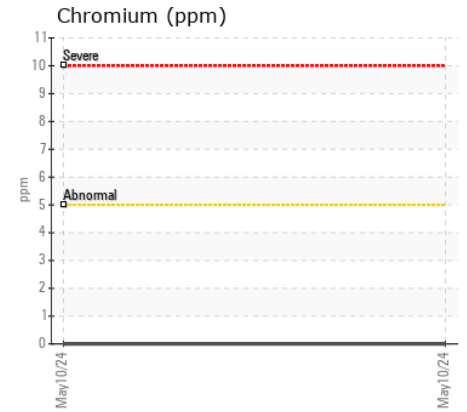
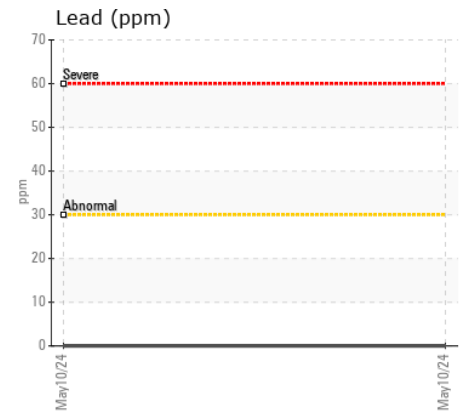
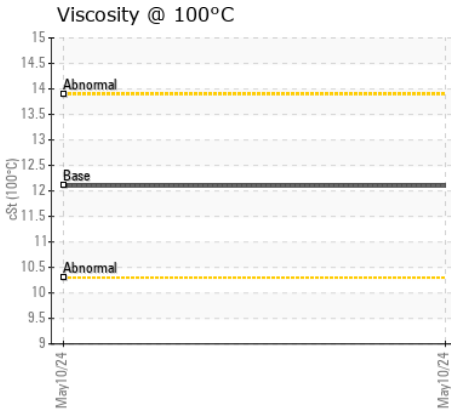
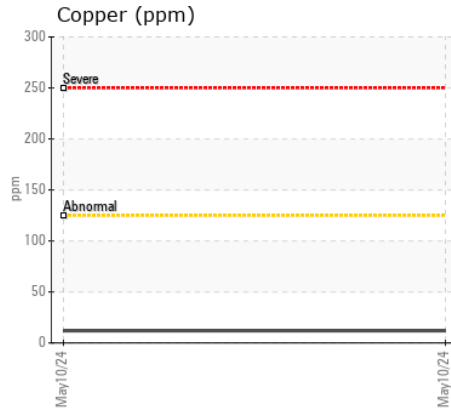
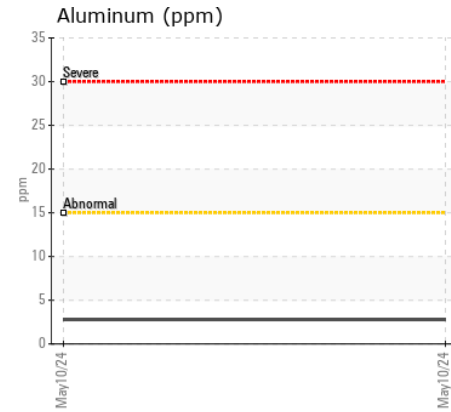
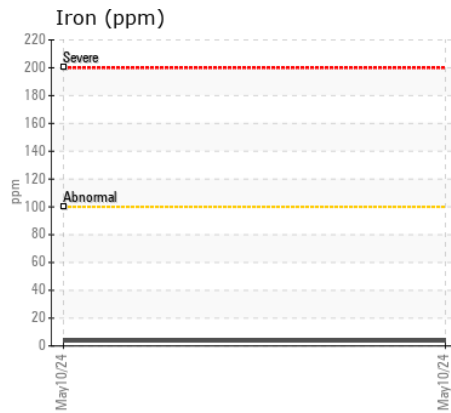
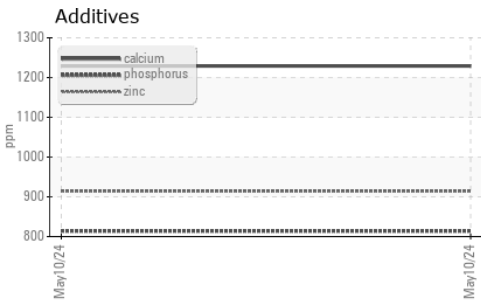
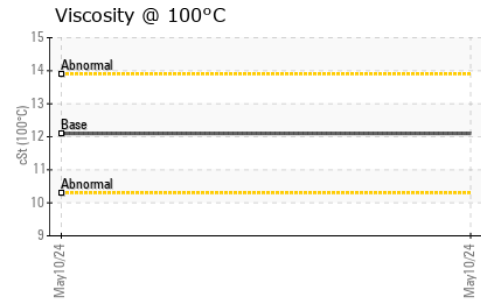
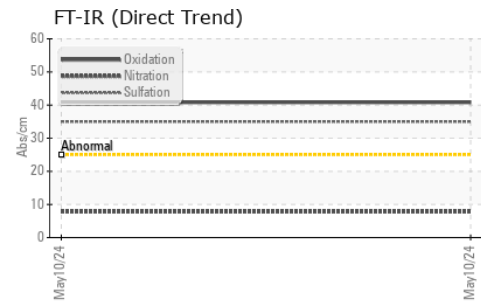
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	13	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	7.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	35.0	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	236	122	---	---
Barium	ppm	ASTM D5185(m)	0	23	---	---
Molybdenum	ppm	ASTM D5185(m)	0	48	---	---
Manganese	ppm	ASTM D5185(m)	<1	2	---	---
Magnesium	ppm	ASTM D5185(m)	25	983	---	---
Calcium	ppm	ASTM D5185(m)	4298	1229	---	---
Phosphorus	ppm	ASTM D5185(m)	1020	814	---	---
Zinc	ppm	ASTM D5185(m)	1164	914	---	---
Sulfur	ppm	ASTM D5185(m)	2460	2175	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	40.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.1	12.1	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289835 **Received** : 13 May 2024
Lab Number : 02634854 **Tested** : 13 May 2024
Unique Number : 5776007 **Diagnosed** : 13 May 2024 - Kevin Marson
Test Package : MOB 1

LES ENTREPRISES LOU-VIL
 255 BOUL LOUIS-XIV
 QUEBEC, QC
 CA G2R 1W6
 Contact: Service Manager
 location@lou-vil.com

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: