



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L550 059181-1756

Component
Diesel Engine

Fluid
SHELL ROTELLA T6 0W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0245760	LH0245752	LH0245774
Sample Date		Client Info		30 Nov 2023	27 Sep 2023	16 Mar 2023
Machine Age	hrs	Client Info		3634	3336	2234
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	3	6	6
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	1	2	2
Lead	ppm	ASTM D5185(m)	>30	<1	2	2
Copper	ppm	ASTM D5185(m)	>125	6	45	76
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

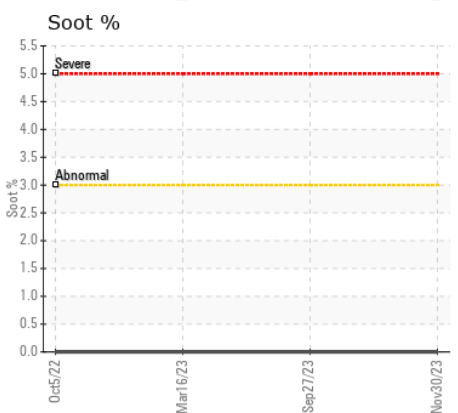
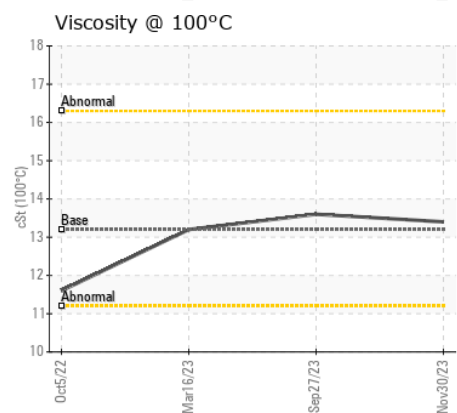
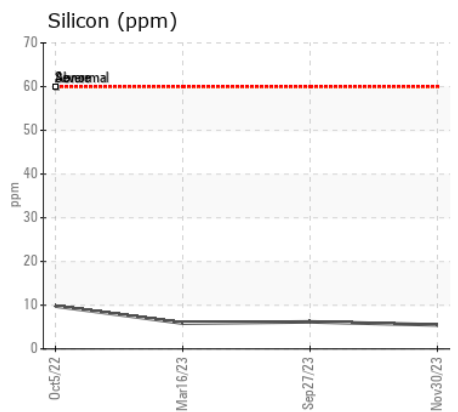
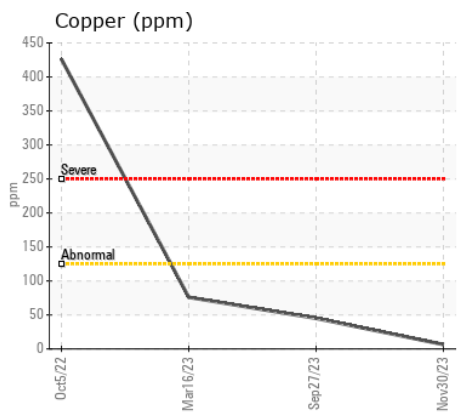
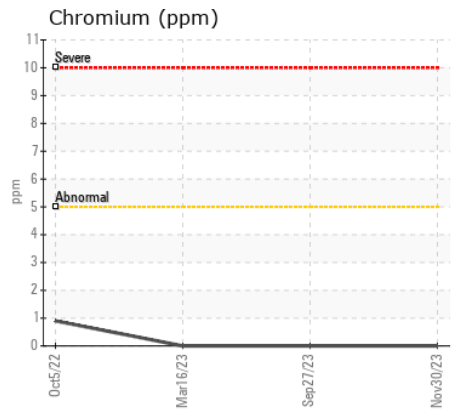
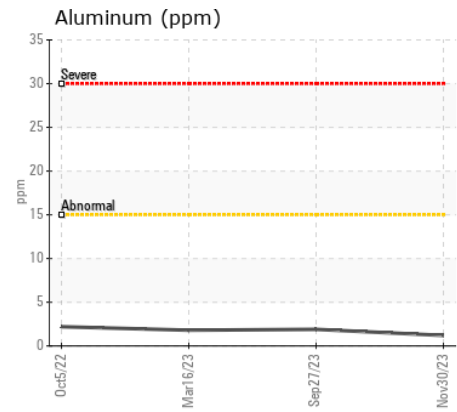
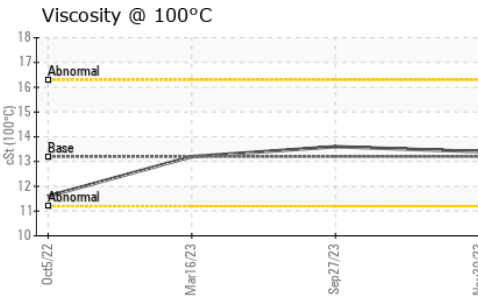
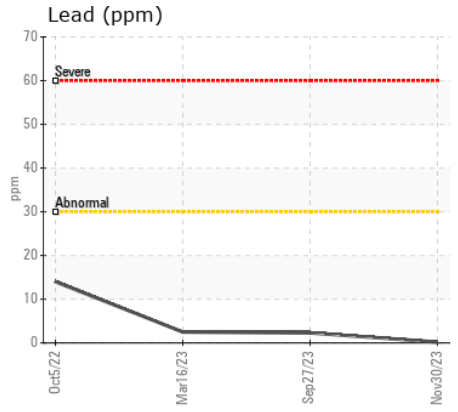
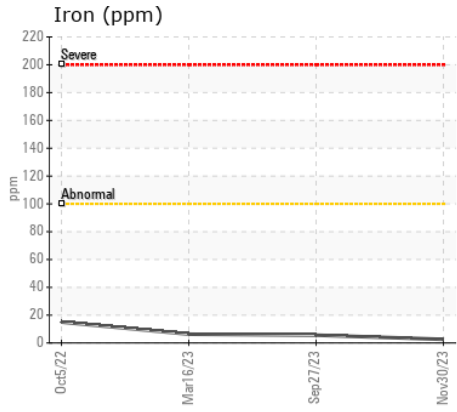
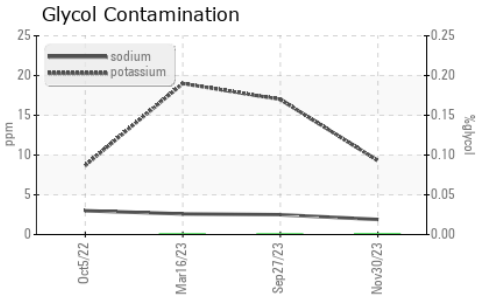
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	6	6	6
Potassium	ppm	ASTM D5185(m)	>20	9	17	19
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	9.0	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	19.1	22.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	2	3
Boron	ppm	ASTM D5185(m)		36	23	32
Barium	ppm	ASTM D5185(m)		0	<1	2
Molybdenum	ppm	ASTM D5185(m)		1	2	5
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		11	19	73
Calcium	ppm	ASTM D5185(m)		2104	2153	2168
Phosphorus	ppm	ASTM D5185(m)		1015	961	1008
Zinc	ppm	ASTM D5185(m)		1123	1165	1155
Sulfur	ppm	ASTM D5185(m)		3678	3412	3331
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	18.0	20.1
Visc @ 100°C	cSt	ASTM D7279(m)	13.2	13.4	13.6	13.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0245760 **Received** : 15 Jan 2024
Lab Number : 02608679 **Diagnosed** : 15 Jan 2024
Unique Number : 5709765 **Diagnostician** : Kevin Marson
Test Package : MOBCE (Additional Tests: Glycol)

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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