



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[605863]
Machine Id
LIEBHERR L526 051780-1558
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286975	LH0274538	LH
Sample Date		Client Info		08 Apr 2024	29 Aug 2023	07 Feb 2022
Machine Age	hrs	Client Info		0	3031	1837
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	20	24	18
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	3	4	3
Lead	ppm	ASTM D5185(m)	>30	<1	2	1
Copper	ppm	ASTM D5185(m)	>125	3	9	9
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

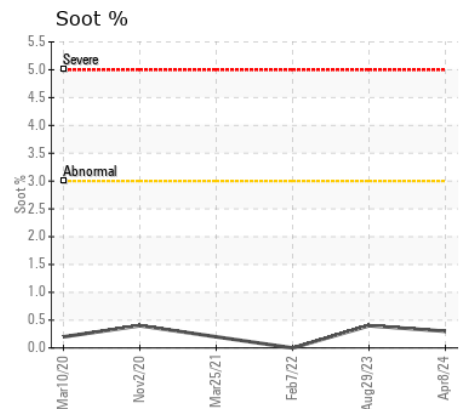
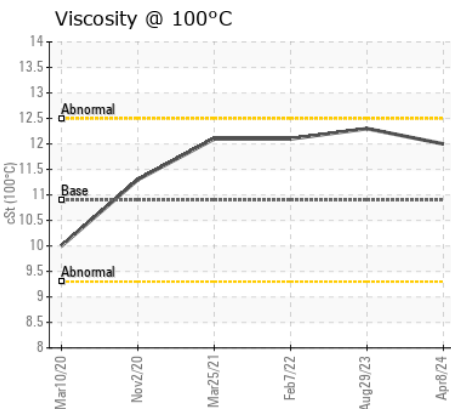
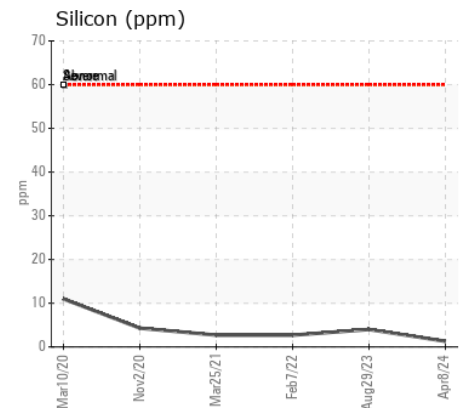
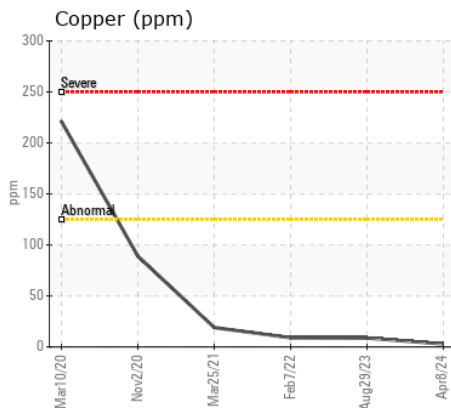
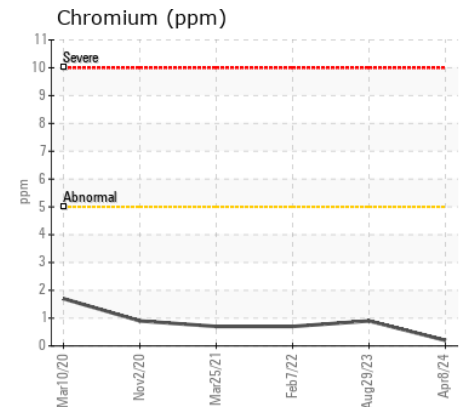
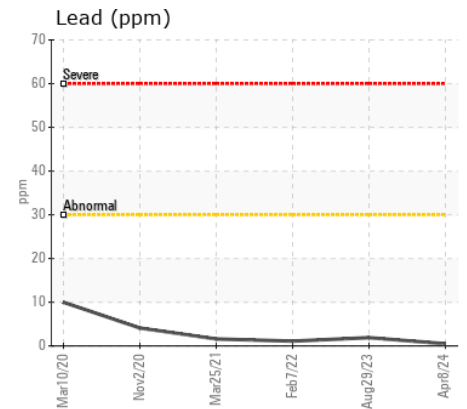
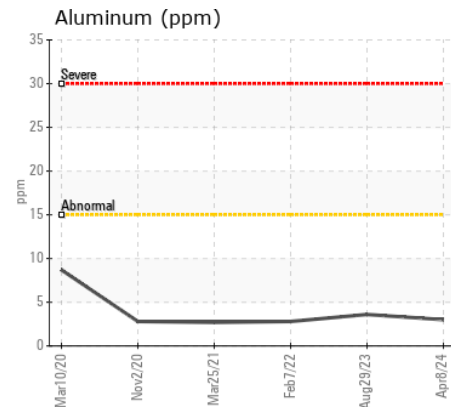
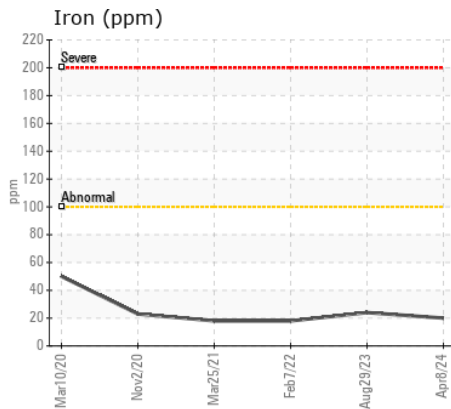
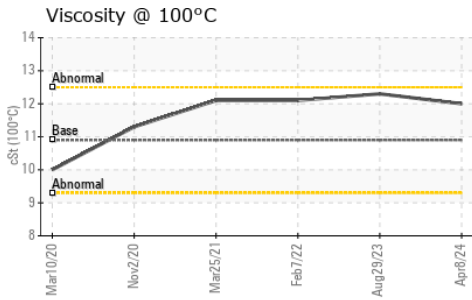
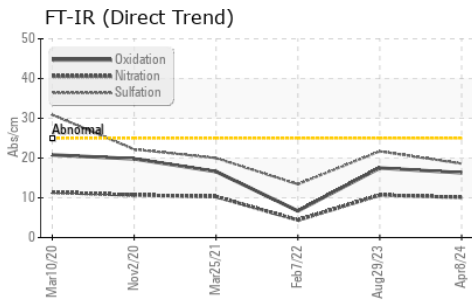
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	1	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	10.1	10.7	4.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	21.7	13.4
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)	>75	2	3	2
Boron	ppm	ASTM D5185(m)	250	4	5	3
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	58	59	57
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	929	915	948
Calcium	ppm	ASTM D5185(m)	3000	1027	1090	1063
Phosphorus	ppm	ASTM D5185(m)	1150	961	931	973
Zinc	ppm	ASTM D5185(m)	1350	1140	1154	1194
Sulfur	ppm	ASTM D5185(m)	4250	2530	2624	2634
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.3	17.5	6.7
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.0	12.3	12.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286975 **Received** : 09 Apr 2024
Lab Number : 02627607 **Tested** : 09 Apr 2024
Unique Number : 5760739 **Diagnosed** : 09 Apr 2024 - Wes Davis
Test Package : MOB 1

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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.