



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 114790-1253
Component
Diesel Engine
Fluid
PETRO CANADA 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0280955	LH0242113	LH0260615
Sample Date		Client Info		19 Jan 2024	10 Oct 2023	02 Jun 2023
Machine Age	hrs	Client Info		8550	7937	7165
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>66	4	5	2
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>8	1	1	1
Lead	ppm	ASTM D5185(m)	>10	<1	2	<1
Copper	ppm	ASTM D5185(m)	>74	2	6	3
Tin	ppm	ASTM D5185(m)	>4	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

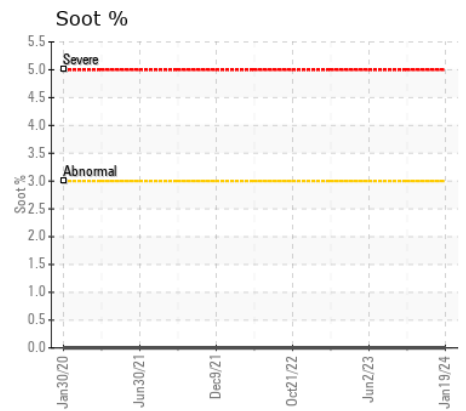
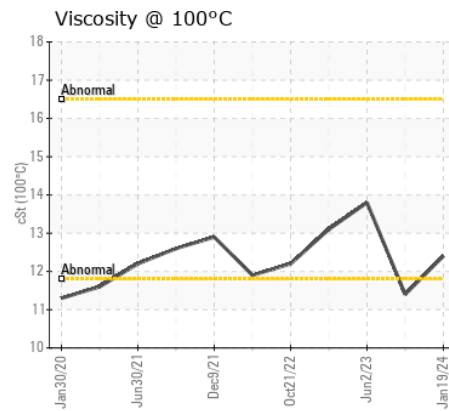
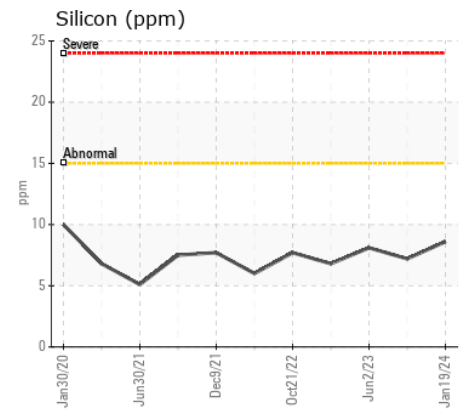
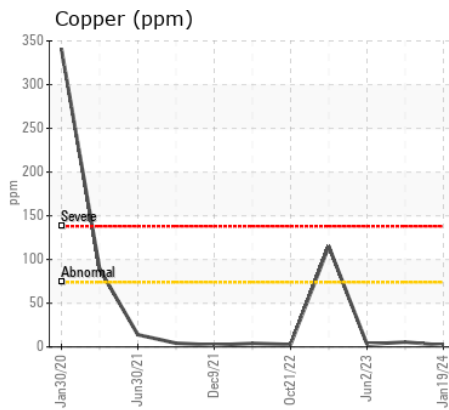
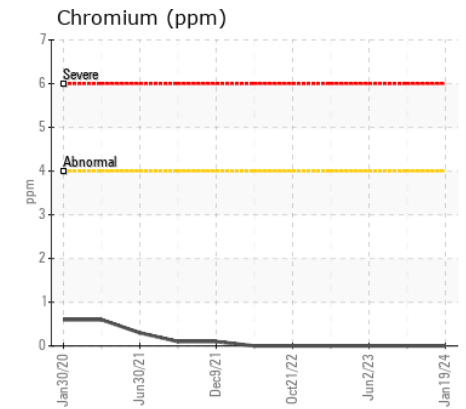
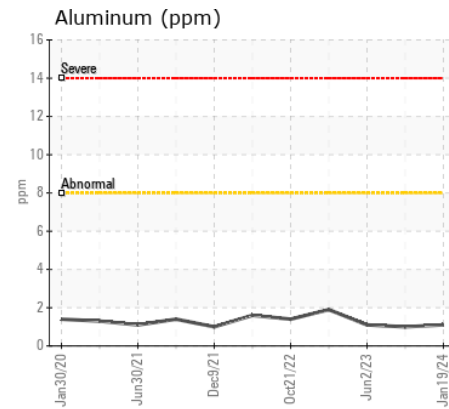
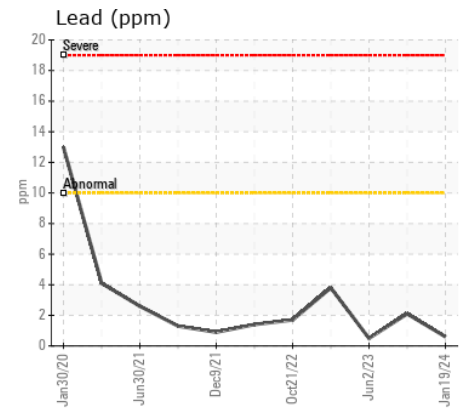
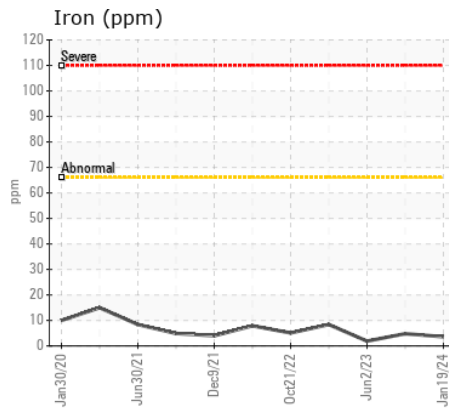
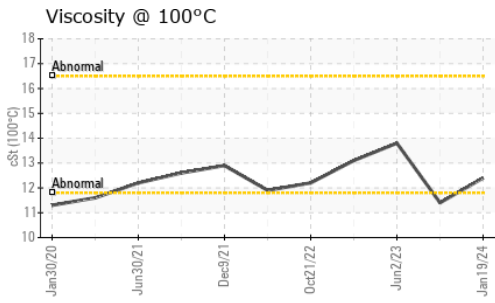
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	9	7	8
Potassium	ppm	ASTM D5185(m)	>20	<1	17	<1
Fuel		WC Method	>5	<1.0	▲ 3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.4	9.0	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	21.1	18.0
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)	>20	1	2	<1
Boron	ppm	ASTM D5185(m)		1	6	1
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		58	60	57
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		954	908	949
Calcium	ppm	ASTM D5185(m)		1086	1141	1089
Phosphorus	ppm	ASTM D5185(m)		1011	920	1086
Zinc	ppm	ASTM D5185(m)		1176	1151	1204
Sulfur	ppm	ASTM D5185(m)		2758	2474	2730
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	18.7	14.0
Visc @ 100°C	cSt	ASTM D7279(m)		12.4	▲ 11.4	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0280955
Lab Number : 02610852
Unique Number : 5719947
Test Package : MOB 1

DAVIS TRADING & SUPPLY LTD.
 110 GRANT STREET
 VANCOUVER, BC
 CA V6A 2J6
 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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