



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(353690)
Machine Id
LIEBHERR LH60M 131944-1475
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME 5W30 (32 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0288322	LH0281356	LH0276943
Sample Date		Client Info		27 Apr 2024	27 Jan 2024	22 Nov 2023
Machine Age	hrs	Client Info		12400	11193	10354
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		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	7	4
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	2	4
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>125	<1	1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

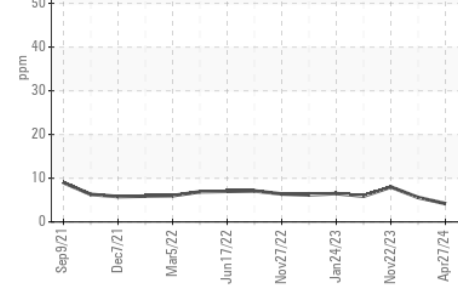
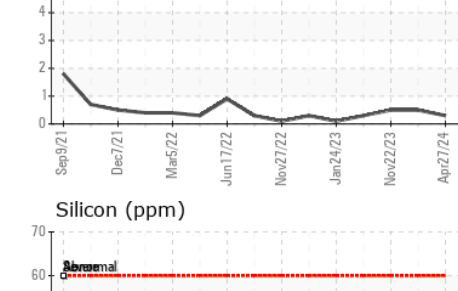
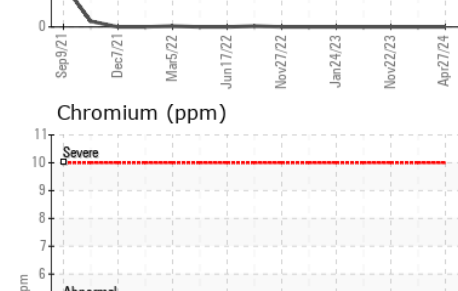
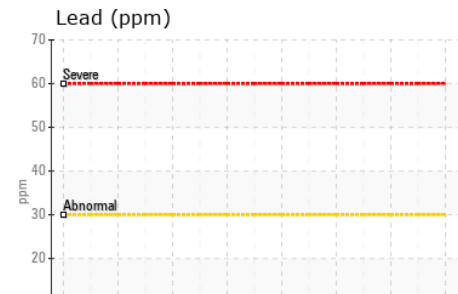
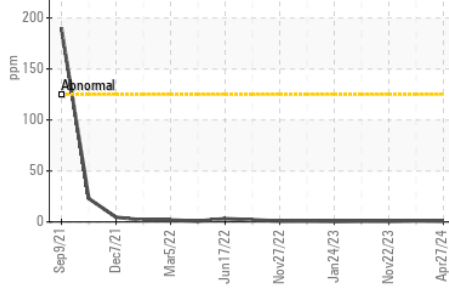
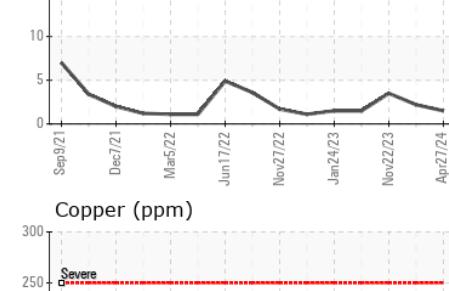
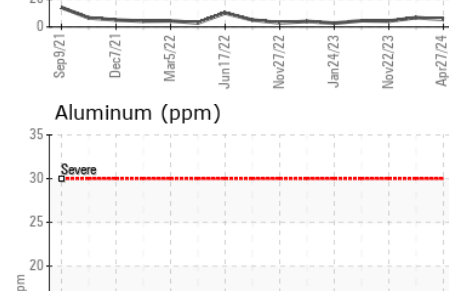
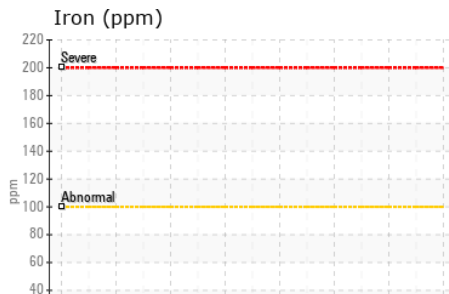
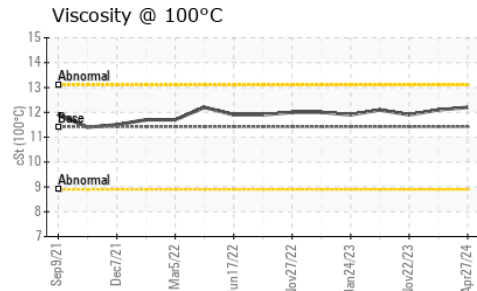
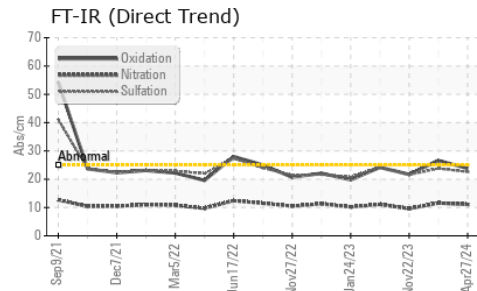
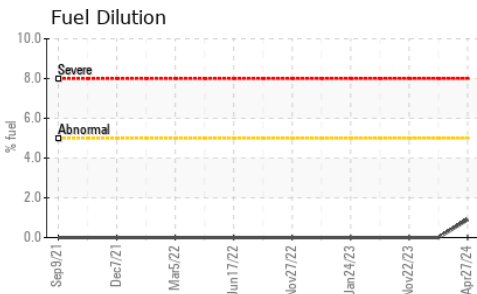
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	4	6	8
Potassium	ppm	ASTM D5185(m)	>20	<1	2	5
Fuel	%	ASTM D7593*	>5	0.9	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.1	11.6	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	23.8	21.5
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)		4	5	4
Boron	ppm	ASTM D5185(m)	186	30	27	34
Barium	ppm	ASTM D5185(m)	<1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	79	62	59	57
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	578	1166	1094	1109
Calcium	ppm	ASTM D5185(m)	1002	857	844	830
Phosphorus	ppm	ASTM D5185(m)	745	1049	1045	1047
Zinc	ppm	ASTM D5185(m)	837	1270	1213	1196
Sulfur	ppm	ASTM D5185(m)	2502	2743	2841	2925
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.8	26.6	21.7
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	12.2	12.1	11.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0288322
Lab Number : 02634929
Unique Number : 5776082
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)
Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Kevin Marson

Eacom Timber Corporation
 100 Old Nairn Centre Road
 Nairn Centre, ON
 CA P0M 2L0
 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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