



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

(336343)

Machine Id

LIEBHERR LH50M 124905-1216

Component

Diesel Engine

Fluid

PETRO CANADA SUPREME SYNTHETIC 0W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290547	LH0224934	LH0182503
Sample Date		Client Info		27 Jun 2024	30 Aug 2022	21 Jul 2021
Machine Age	hrs	Client Info		22074	13313	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
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)	>66	3	10	3
Chromium	ppm	ASTM D5185(m)	>4	0	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>8	1	2	2
Lead	ppm	ASTM D5185(m)	>10	0	0	2
Copper	ppm	ASTM D5185(m)	>74	<1	0	17
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

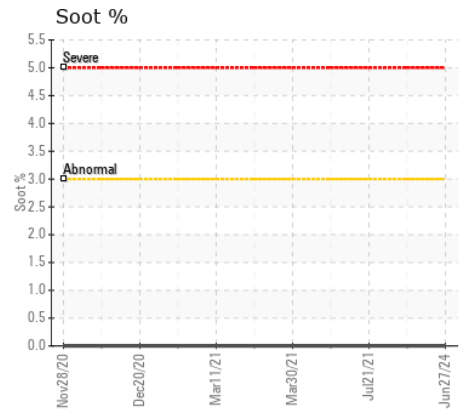
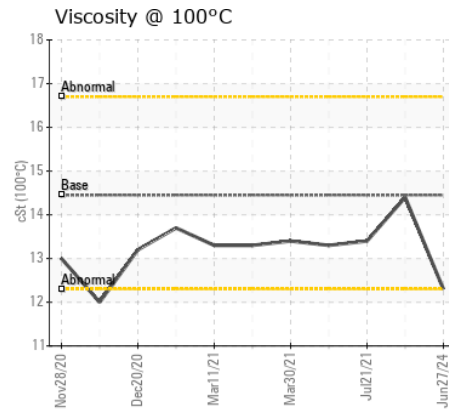
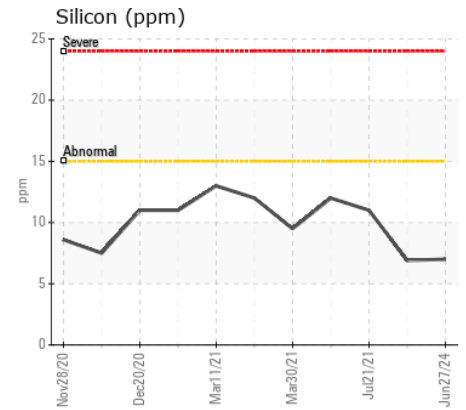
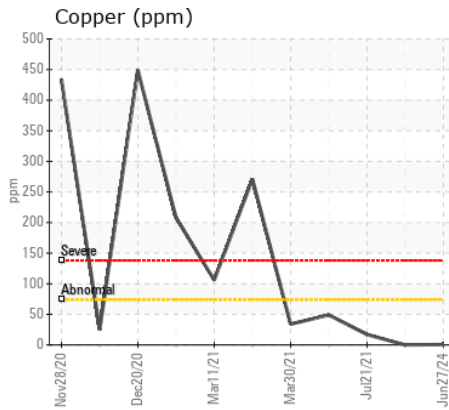
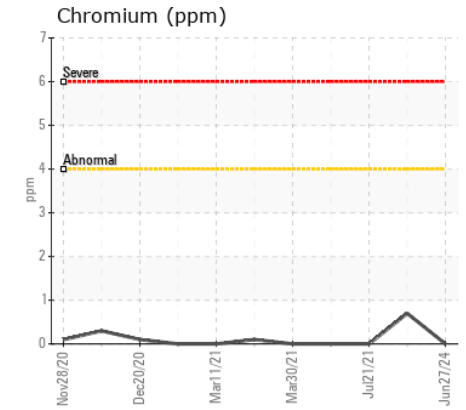
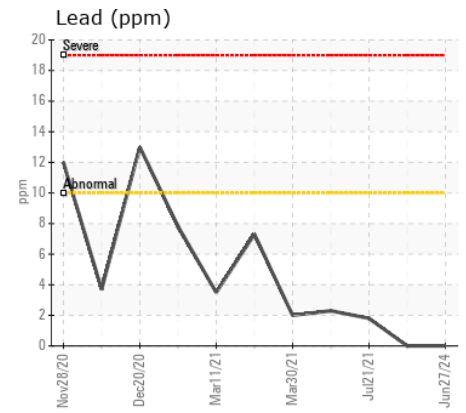
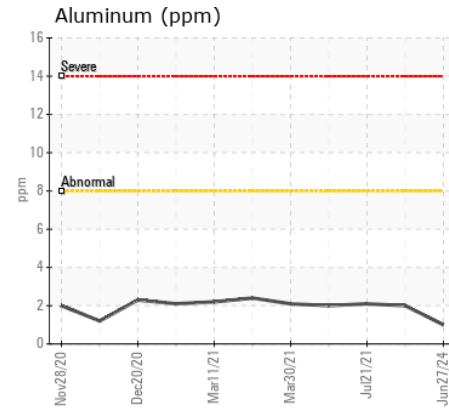
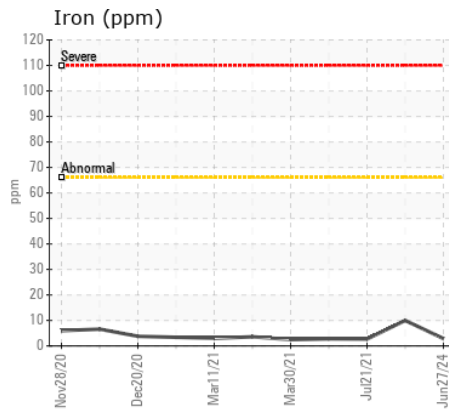
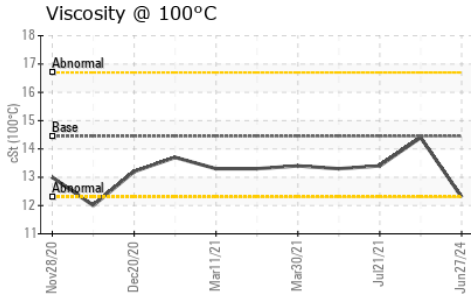
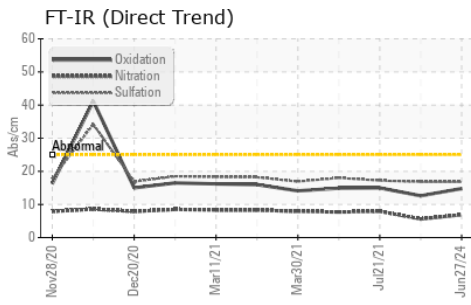
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	7	7	11
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	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	5.6	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.8	16.8	17.2
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)		1	2	3
Boron	ppm	ASTM D5185(m)	2	2	6	1
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	56	3	1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	925	29	34
Calcium	ppm	ASTM D5185(m)	1070	1072	2127	2073
Phosphorus	ppm	ASTM D5185(m)	1150	961	950	929
Zinc	ppm	ASTM D5185(m)	1270	1163	1028	1085
Sulfur	ppm	ASTM D5185(m)	2060	2538	3093	2987
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	12.6	15.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.45	12.3	14.4	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0290547
Lab Number : 02645388
Unique Number : 5802927
Test Package : MOB 1
Received : 04 Jul 2024
Tested : 04 Jul 2024
Diagnosed : 04 Jul 2024 - Wes Davis

CANFOR
 101-161 E 4TH AVE
 VANCOUVER, BC
 CA V5T 3C1
 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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F: