



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
LIEBHERR LH50M 084832-1203
Component
Transmission
Fluid
PETRO CANADA SUPREME 5W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0281235	LH0213901	LH0202497
Sample Date		Client Info		23 Apr 2024	09 Jun 2022	20 Sep 2021
Machine Age	hrs	Client Info		19219	16044	15020
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				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>148	115	109	102
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	2	2	2
Lead	ppm	ASTM D5185(m)	>203	0	<1	1
Copper	ppm	ASTM D5185(m)	>520	32	24	29
Tin	ppm	ASTM D5185(m)	>7	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

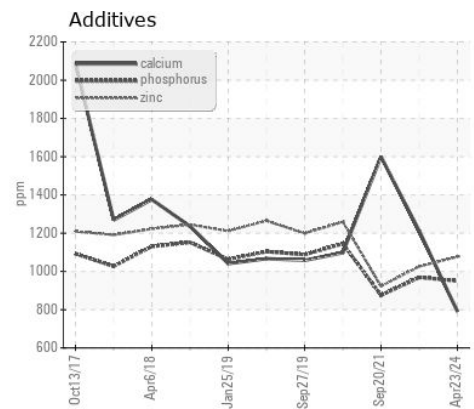
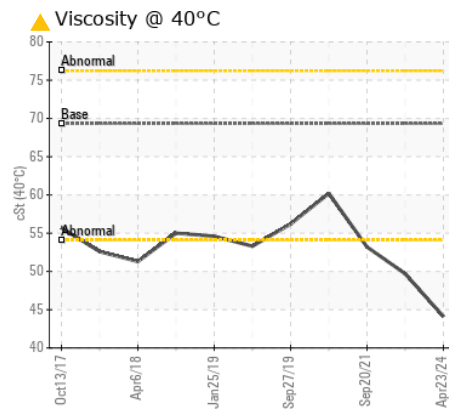
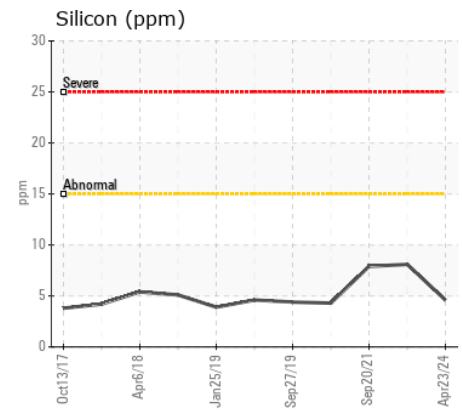
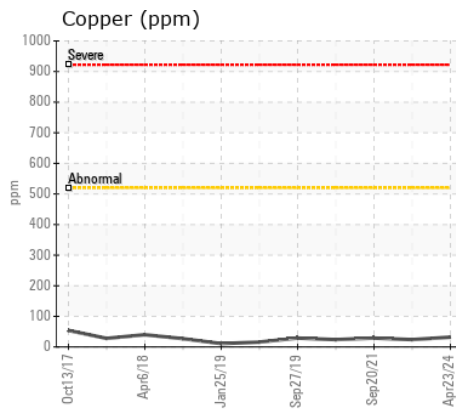
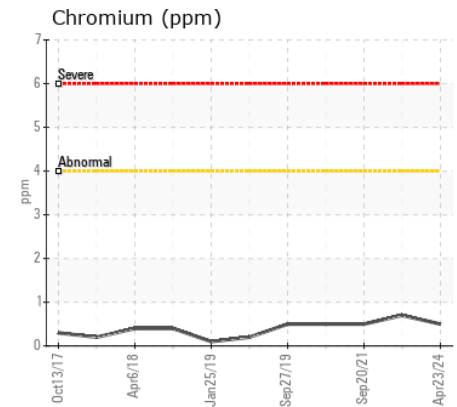
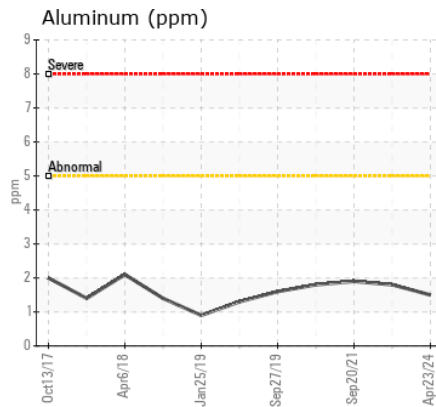
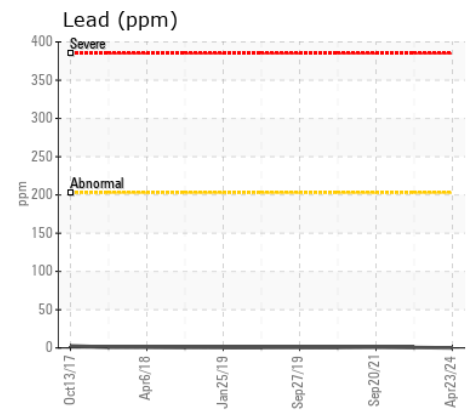
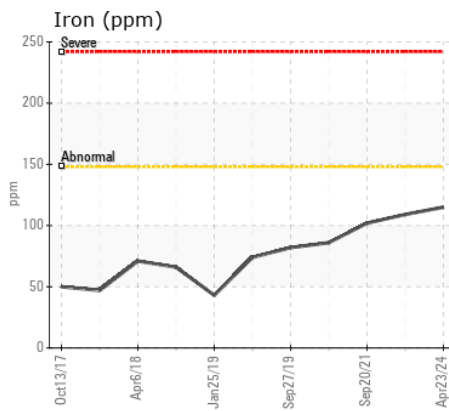
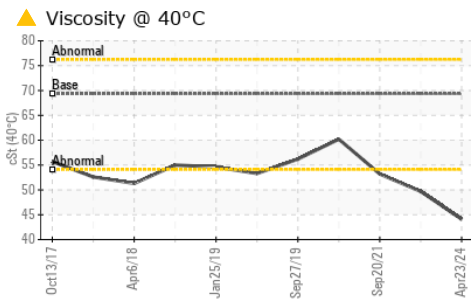
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>15	5	8	8
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	LIGHT	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The fluid viscosity is lower than typical, possibly indicating the addition of lighter grade fluid. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	2	3
Boron	ppm	ASTM D5185(m)	186	28	26	59
Barium	ppm	ASTM D5185(m)	<1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	79	41	42	42
Manganese	ppm	ASTM D5185(m)	0	3	5	5
Magnesium	ppm	ASTM D5185(m)	578	698	637	548
Calcium	ppm	ASTM D5185(m)	1002	791	1212	1600
Phosphorus	ppm	ASTM D5185(m)	745	950	969	876
Zinc	ppm	ASTM D5185(m)	837	1077	1026	923
Sulfur	ppm	ASTM D5185(m)	2502	2910	2640	2386
Visc @ 40°C	cSt	ASTM D7279(m)	69.33	▲ 44.1	▲ 49.7	▲ 53.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281235 **Received** : 13 May 2024
Lab Number : 02635039 **Tested** : 13 May 2024
Unique Number : 5776192 **Diagnosed** : 13 May 2024 - Kevin Marson
Test Package : MOB 1

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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F: