



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(349196)
Machine Id
LIEBHERR L556 059592-1332
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME 5W30 (26 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0288300	LH0281241	LH0265585
Sample Date		Client Info		23 Apr 2024	23 Jan 2024	25 Oct 2023
Machine Age	hrs	Client Info		13157	12000	11042
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	6	6	5
Chromium	ppm	ASTM D5185(m)	>5	0	<1	0
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	<1
Aluminum	ppm	ASTM D5185(m)	>15	<1	2	1
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>125	2	2	2
Tin	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

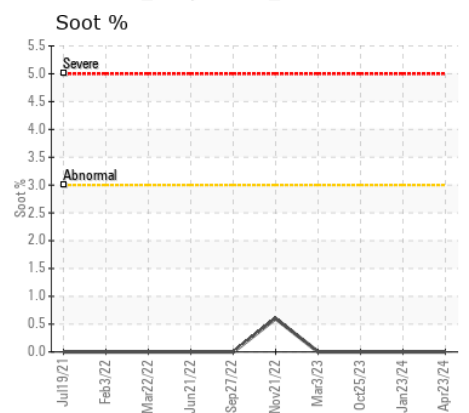
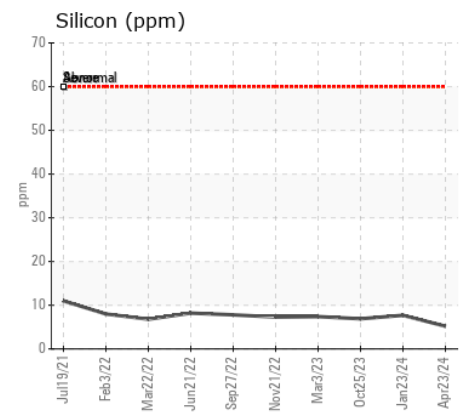
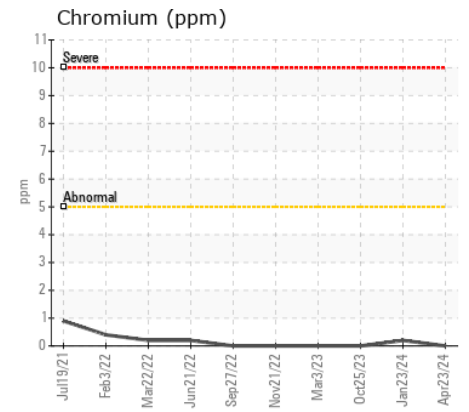
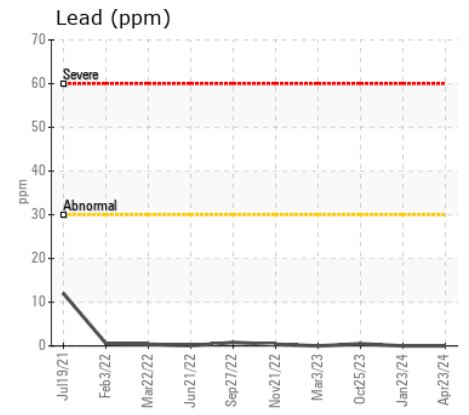
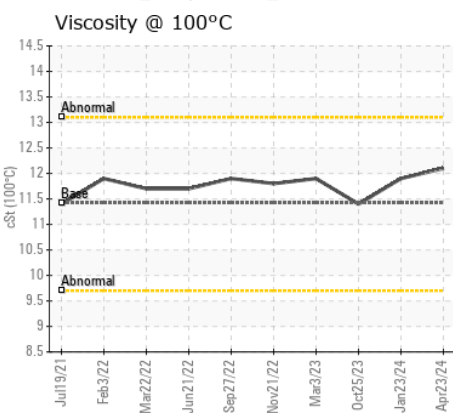
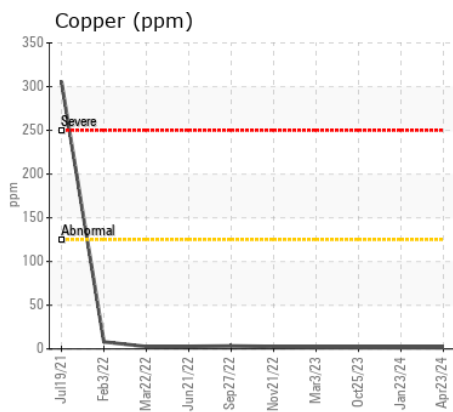
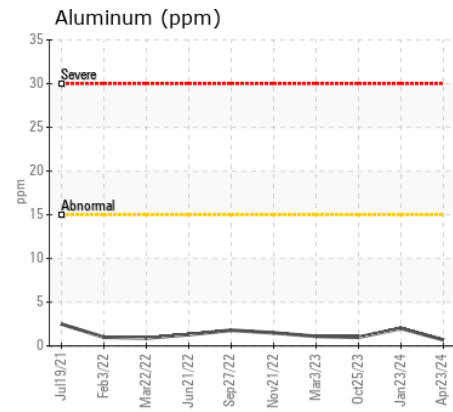
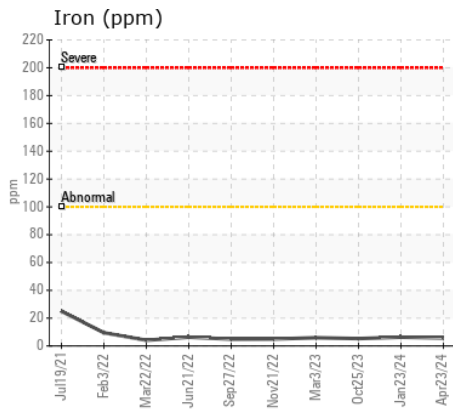
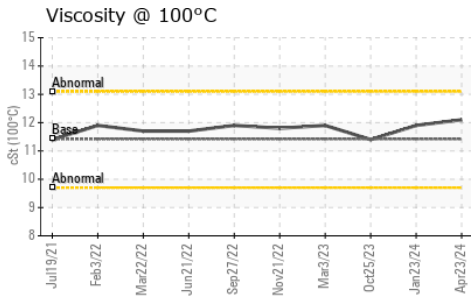
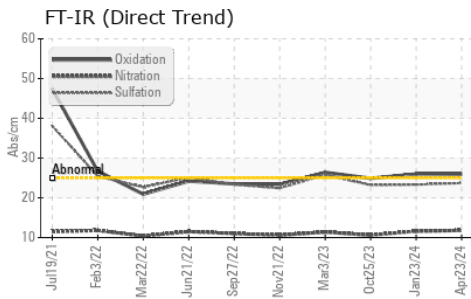
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	5	8	7
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
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	11.8	11.6	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7	23.3	23.2
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)		4	5	4
Boron	ppm	ASTM D5185(m)	186	25	25	16
Barium	ppm	ASTM D5185(m)	<1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	79	56	57	58
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	578	1105	1098	1113
Calcium	ppm	ASTM D5185(m)	1002	818	822	816
Phosphorus	ppm	ASTM D5185(m)	745	989	1019	1007
Zinc	ppm	ASTM D5185(m)	837	1189	1170	1194
Sulfur	ppm	ASTM D5185(m)	2502	2610	2855	2675
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.9	26.0	24.9
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	12.1	11.9	11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0288300
Lab Number : 02637851
Unique Number : 5787013
Test Package : MOB 1
Received : 28 May 2024
Tested : 28 May 2024
Diagnosed : 28 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.

T:
F: