



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(366970)
Machine Id
LIEBHERR L556 066890-1826
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME 5W30 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0281283	LH0250653	LH0265574
Sample Date		Client Info		09 May 2024	18 Jan 2024	03 Nov 2023
Machine Age	hrs	Client Info		12115	10306	9032
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	7	15
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<1	3	5
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>125	2	3	6
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

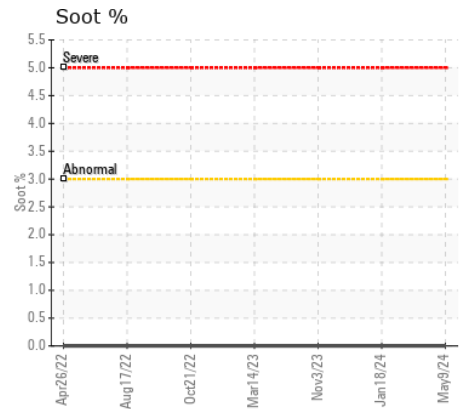
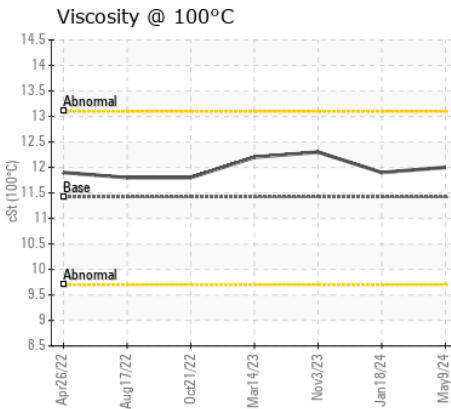
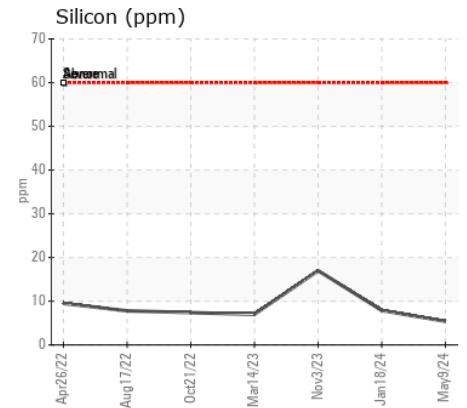
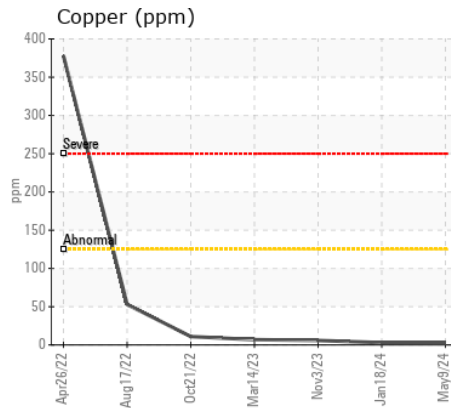
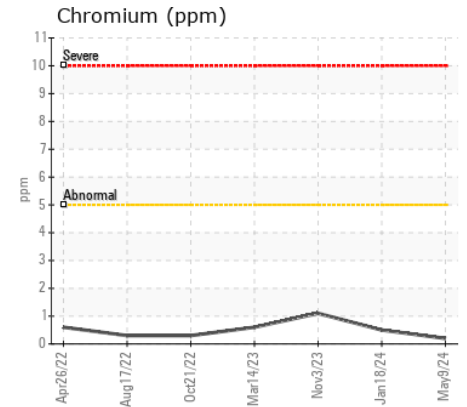
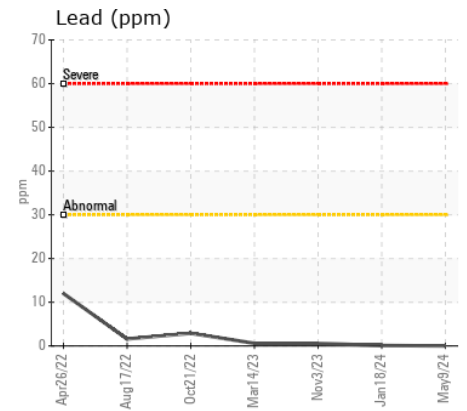
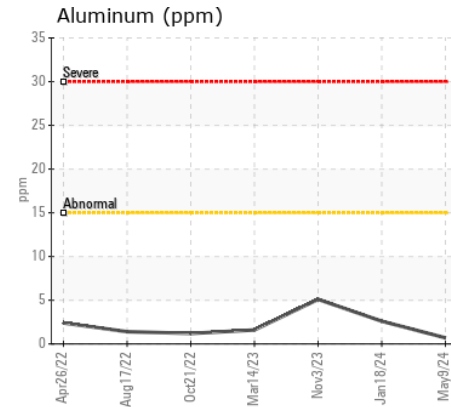
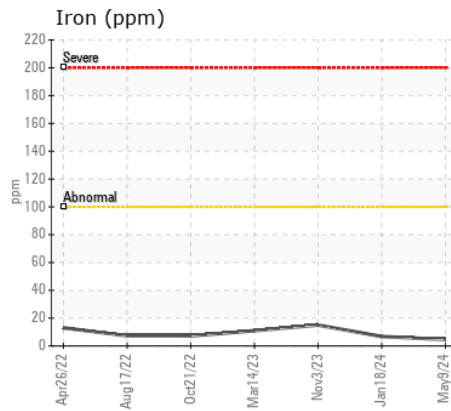
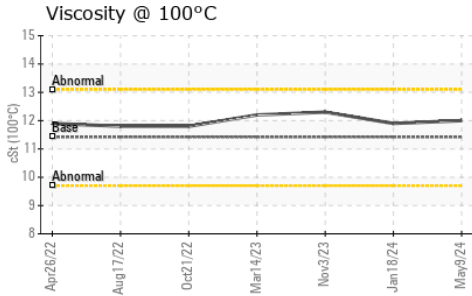
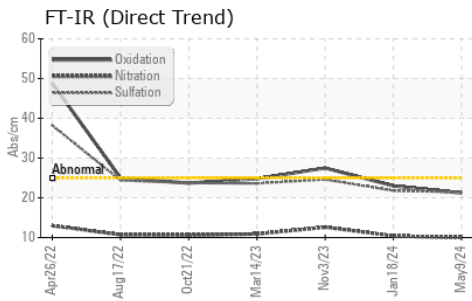
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	5	8	17
Potassium	ppm	ASTM D5185(m)	>20	0	1	4
Fuel		WC Method	>5	<1.0	<1.0	1.5
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	10.0	10.4	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	21.8	24.6
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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	4	5
Boron	ppm	ASTM D5185(m)	186	27	26	18
Barium	ppm	ASTM D5185(m)	<1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	79	59	57	58
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	578	1123	1103	1100
Calcium	ppm	ASTM D5185(m)	1002	810	830	852
Phosphorus	ppm	ASTM D5185(m)	745	1012	1026	1008
Zinc	ppm	ASTM D5185(m)	837	1181	1197	1209
Sulfur	ppm	ASTM D5185(m)	2502	2652	2855	2498
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	23.0	▲ 27.5
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	12.0	11.9	12.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281283 **Received** : 29 May 2024
Lab Number : 02638342 **Tested** : 29 May 2024
Unique Number : 5787504 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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: