



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L586 70612
Component
Diesel Engine
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		LH0287846	LH0277075	LH0269594
Sample Date		Client Info		13 Apr 2024	10 Nov 2023	21 Aug 2023
Machine Age	hrs	Client Info		1998	1481	970
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	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	4	5	6
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	1	1	2
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

CONTAMINATION

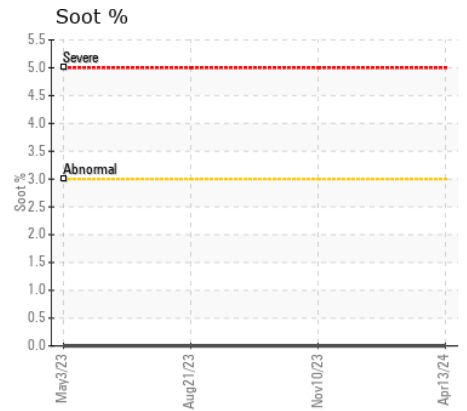
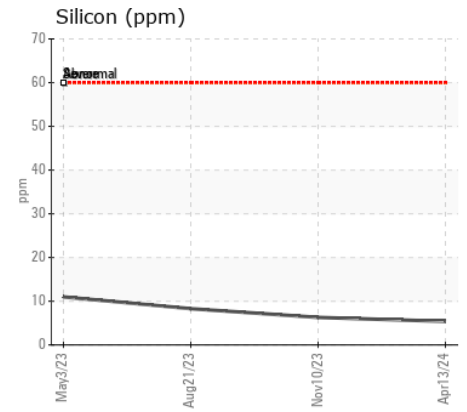
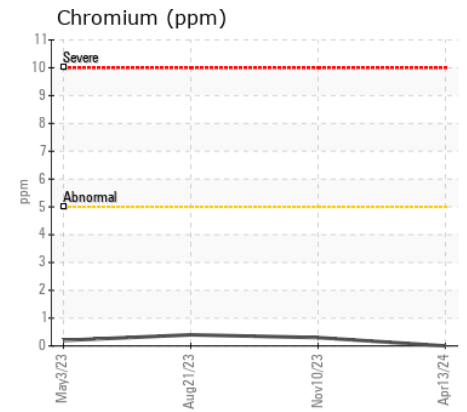
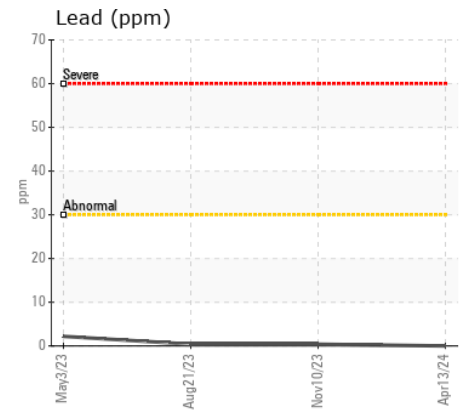
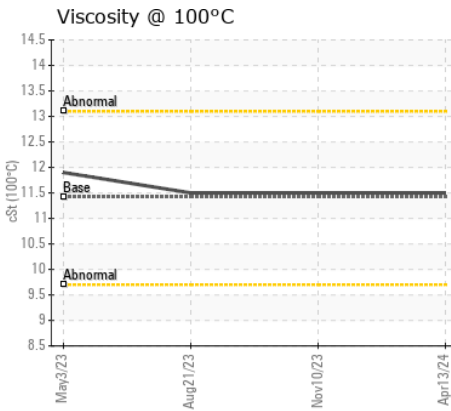
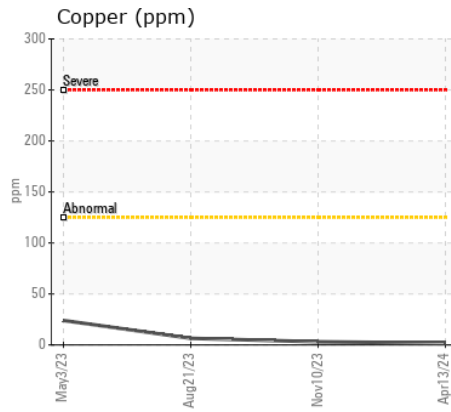
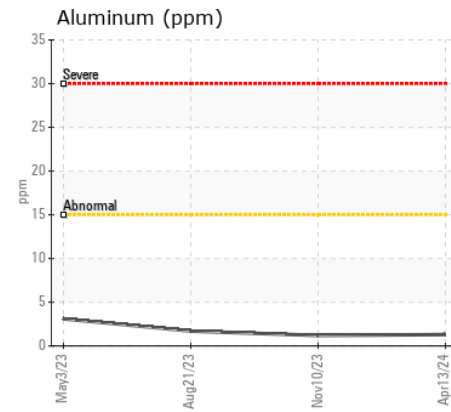
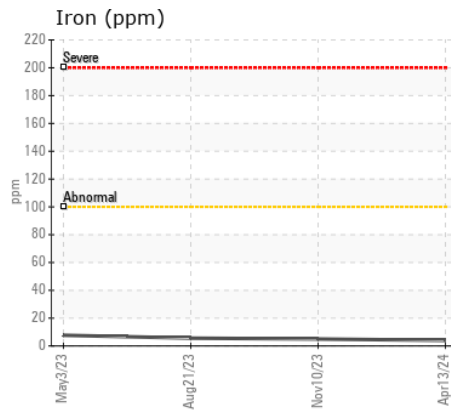
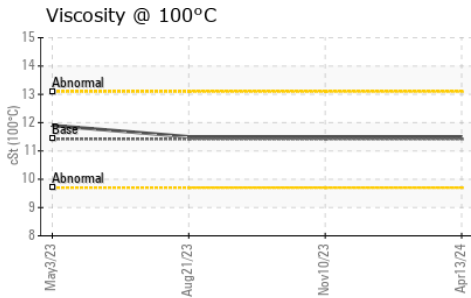
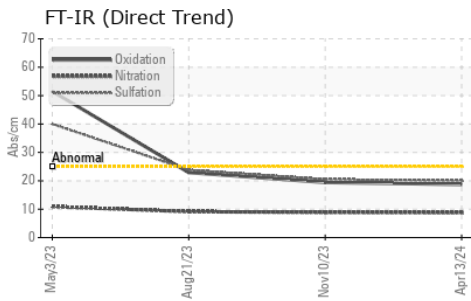
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	5	6	8
Potassium	ppm	ASTM D5185(m)	>20	4	2	6
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	8.8	8.9	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.5	23.8
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)		5	4	4
Boron	ppm	ASTM D5185(m)	186	41	31	40
Barium	ppm	ASTM D5185(m)	<1	<1	1	3
Molybdenum	ppm	ASTM D5185(m)	79	57	55	59
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	578	1091	1088	1109
Calcium	ppm	ASTM D5185(m)	1002	804	837	905
Phosphorus	ppm	ASTM D5185(m)	745	990	1014	1025
Zinc	ppm	ASTM D5185(m)	837	1179	1204	1152
Sulfur	ppm	ASTM D5185(m)	2502	2752	2775	2718
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.7	19.4	22.9
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	11.5	11.5	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0287846 **Received** : 19 Apr 2024
Lab Number : 02630130 **Tested** : 19 Apr 2024
Unique Number : 5763262 **Diagnosed** : 19 Apr 2024 - Wes Davis
Test Package : MOB 1

GRAYMONT (NB) INC
 4634, ROUTE 880
 HAVELOCK, NB
 CA E4Z 5K8
 Contact: Dennis Wall

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: (506)534-6280
 F: (506)534-2449