



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L586 064339
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME 5W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0280912	LH0269609	LH0259979
Sample Date		Client Info		04 Jan 2024	25 Sep 2023	01 Jul 2023
Machine Age	kms	Client Info		4167	2508	3090
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	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

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	4	5	5
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	1
Lead	ppm	ASTM D5185(m)	>30	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>125	1	2	2
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

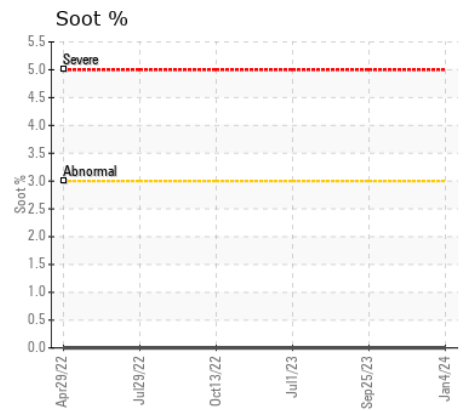
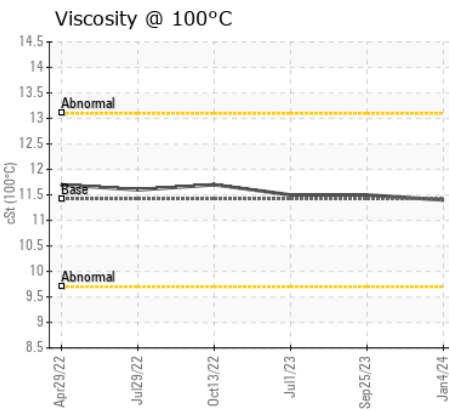
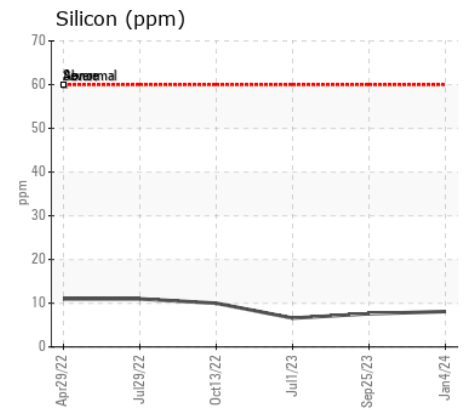
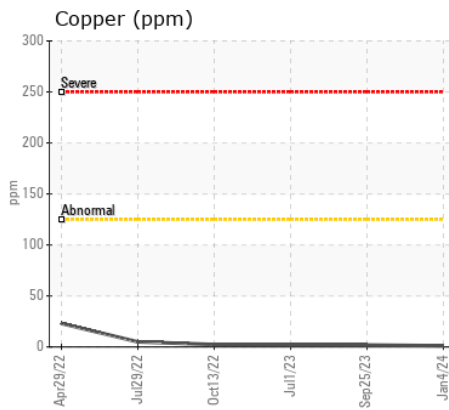
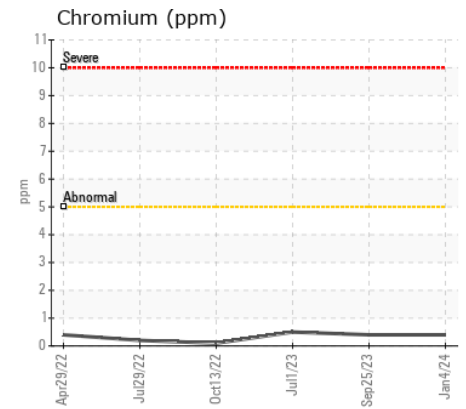
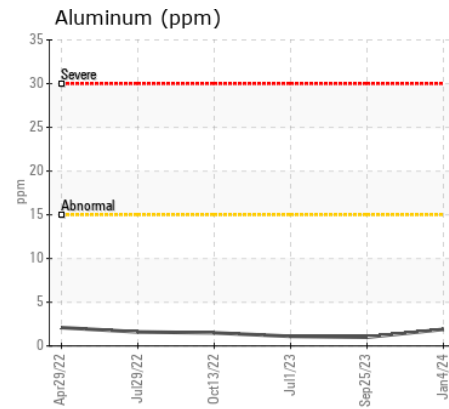
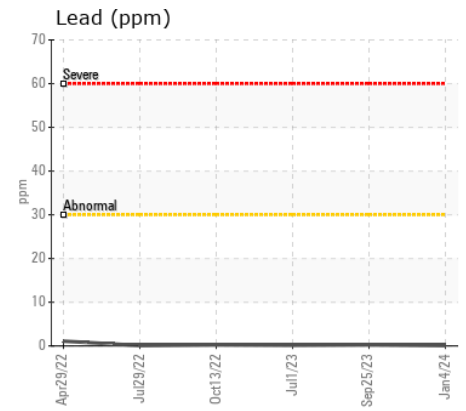
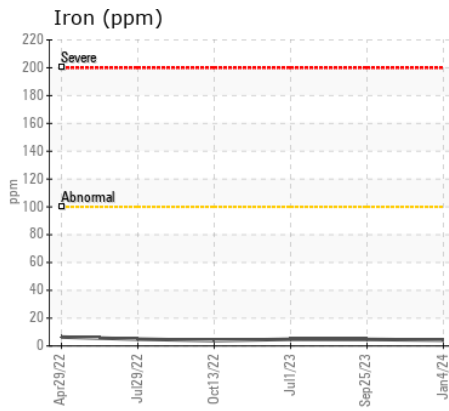
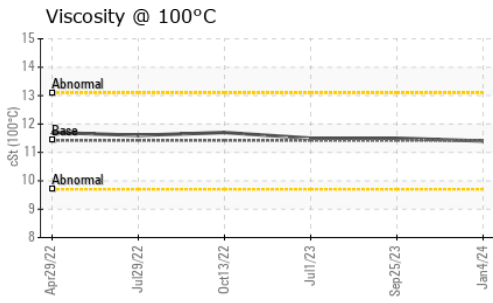
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	8	8	7
Potassium	ppm	ASTM D5185(m)	>20	2	2	2
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	9.6	9.1	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.2	20.0
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	5
Boron	ppm	ASTM D5185(m)	186	25	29	33
Barium	ppm	ASTM D5185(m)	<1	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	79	52	57	63
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	578	1010	1130	1154
Calcium	ppm	ASTM D5185(m)	1002	744	861	821
Phosphorus	ppm	ASTM D5185(m)	745	919	1059	1061
Zinc	ppm	ASTM D5185(m)	837	1092	1270	1213
Sulfur	ppm	ASTM D5185(m)	2502	2619	2967	2780
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	18.8	18.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	11.4	11.5	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0280912 **Received** : 10 Jan 2024
Lab Number : 02607794 **Diagnosed** : 10 Jan 2024
Unique Number : 5708880 **Diagnostician** : Wes Davis
Test Package : MOB 1

Quality Concrete Inc.
 35 Lafarge Lane
 Folly Lake, NS
 CA B0M 1M0
 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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