



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
VOLVO L70G WL0417
Component
Rear Differential
Fluid
VOLVO WB 102 (--- LTR)



DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

▲ Wear

Copper and tin ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0082102	---	---
Sample Date	Client Info	02 Jun 2023	---	---
Machine Age	hrs Client Info	4858	---	---
Oil Age	hrs Client Info	4858	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>500	228	---	---
Chromium ppm ASTM D5185(m)	>10	8	---	---
Nickel ppm ASTM D5185(m)	>10	2	---	---
Titanium ppm ASTM D5185(m)		<1	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>25	2	---	---
Lead ppm ASTM D5185(m)	>25	4	---	---
Copper ppm ASTM D5185(m)	>100	▲ 135	---	---
Tin ppm ASTM D5185(m)	>10	▲ 15	---	---
Antimony ppm ASTM D5185(m)	>5	0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		119	---	---
Barium ppm ASTM D5185(m)		<1	---	---
Molybdenum ppm ASTM D5185(m)		4	---	---
Manganese ppm ASTM D5185(m)		11	---	---
Magnesium ppm ASTM D5185(m)		15	---	---
Calcium ppm ASTM D5185(m)		4055	---	---
Phosphorus ppm ASTM D5185(m)		1396	---	---
Zinc ppm ASTM D5185(m)		1634	---	---
Sulfur ppm ASTM D5185(m)		3551	---	---
Lithium ppm ASTM D5185(m)		4	---	---

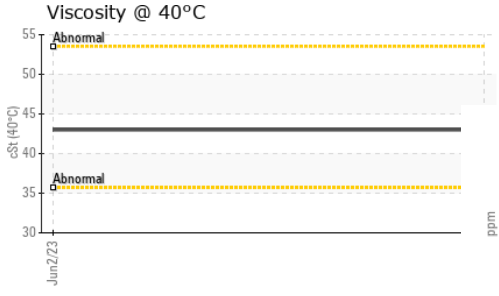
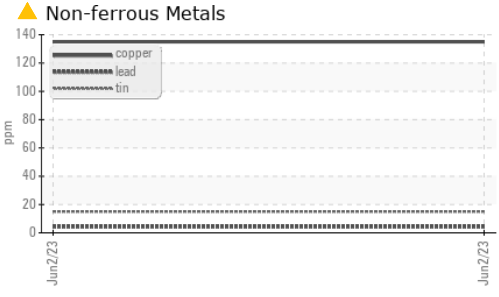
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>75	20	---	---
Sodium ppm ASTM D5185(m)		4	---	---
Potassium ppm ASTM D5185(m)	>20	1	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar Visual*	NONE	NONE	---	---
Yellow Metal scalar Visual*	NONE	NONE	---	---
Precipitate scalar Visual*	NONE	NONE	---	---
Silt scalar Visual*	NONE	NONE	---	---
Debris scalar Visual*	NONE	NONE	---	---
Sand/Dirt scalar Visual*	NONE	NONE	---	---
Appearance scalar Visual*	NORML	NORML	---	---
Odor scalar Visual*	NORML	NORML	---	---
Emulsified Water scalar Visual*	>.2	NEG	---	---
Free Water scalar Visual*		NEG	---	---

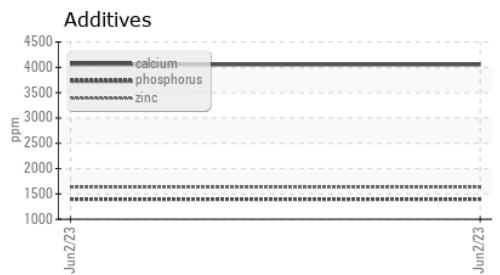
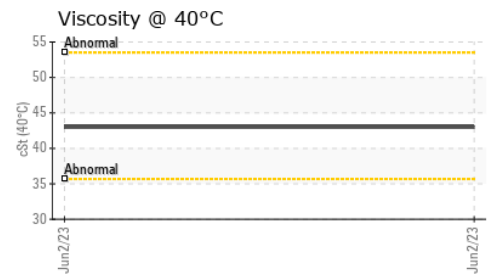
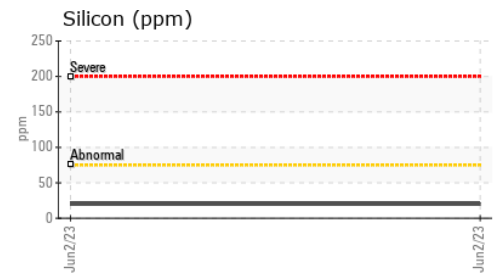
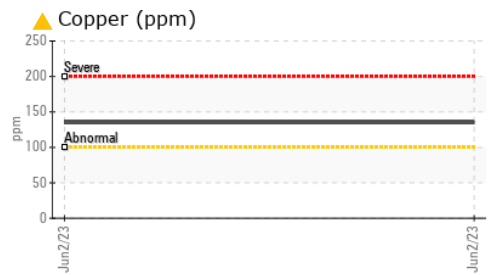
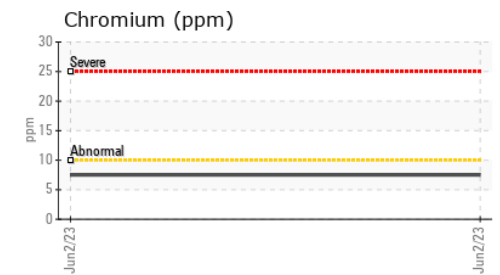
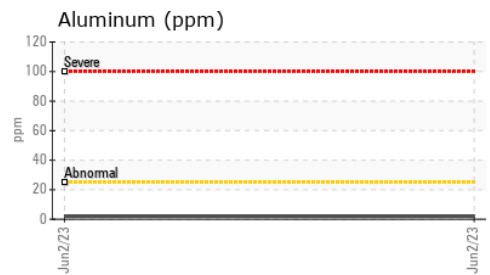
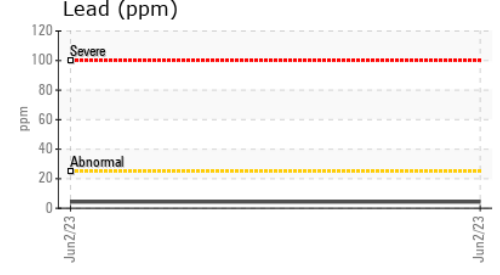
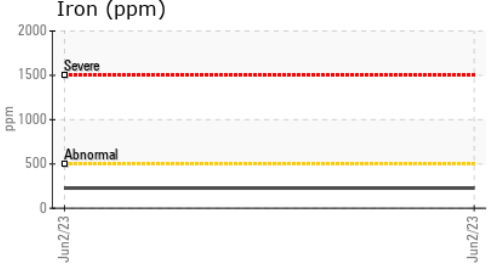
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		43.0	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0082102 **Received** : 30 Aug 2023
Lab Number : **02579475** **Diagnosed** : 30 Aug 2023
Unique Number : 5632535 **Diagnostician** : Kevin Marson
Test Package : MOB 1

GFL Environmental - 527
 449 Feldman Rd.
 Timmins, ON
 CA P4N 7E2
 Contact: Martin St-Pierre
 martinstpierre@gflenv.com
 T: (705)264-8700
 F: (705)264-8701

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.