



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area

[587695]

Machine Id

**VOLVO L70H 623953**

Component

**Rear Left Final Drive**

Fluid

**VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP439826	---	---
Sample Date		Client Info		18 Jun 2024	---	---
Machine Age	hrs	Client Info		7398	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Changed	---	---
Sample Status				ABNORMAL	---	---

### WEAR

Copper and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>1000	278	---	---
Chromium	ppm	ASTM D5185m	>10	4	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	3	---	---
Lead	ppm	ASTM D5185m	>25	1	---	---
Copper	ppm	ASTM D5185m	>30	▲ 106	---	---
Tin	ppm	ASTM D5185m	>10	▲ 12	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

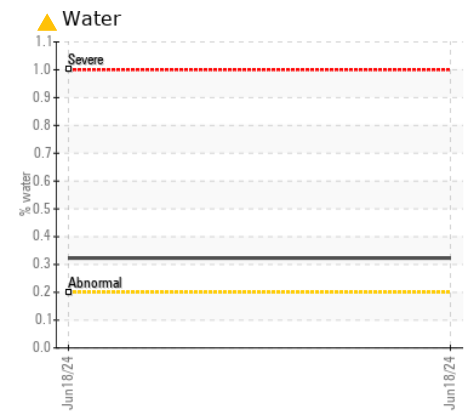
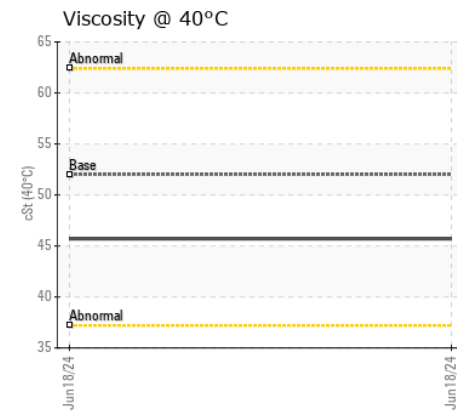
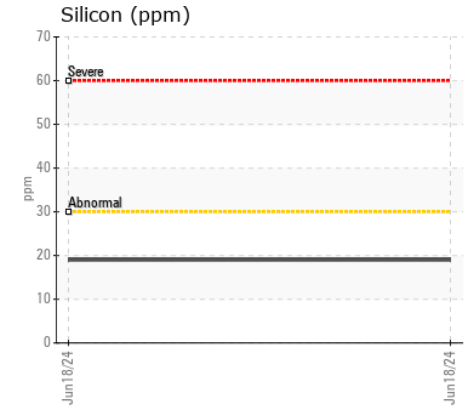
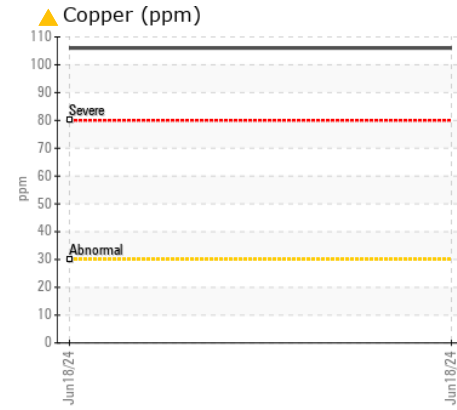
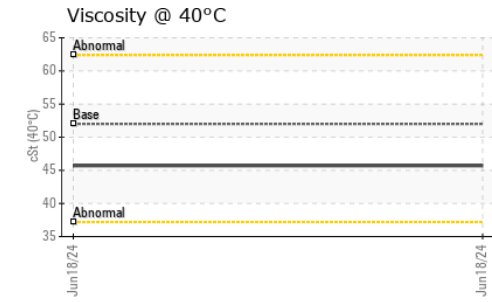
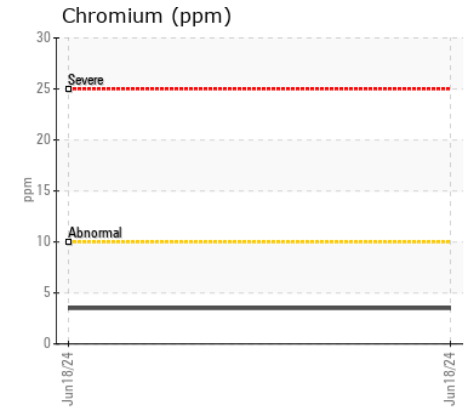
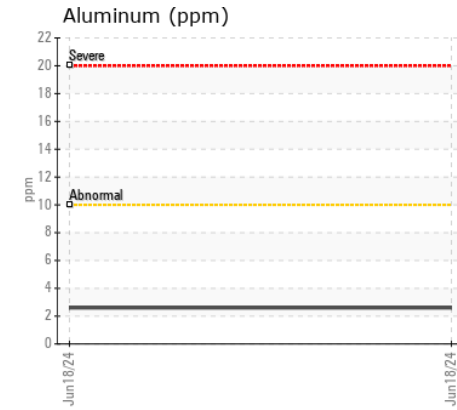
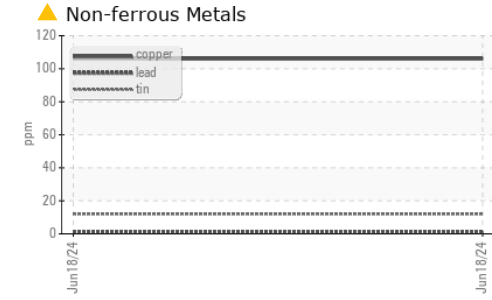
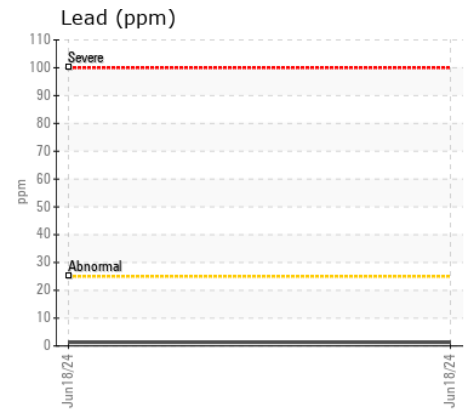
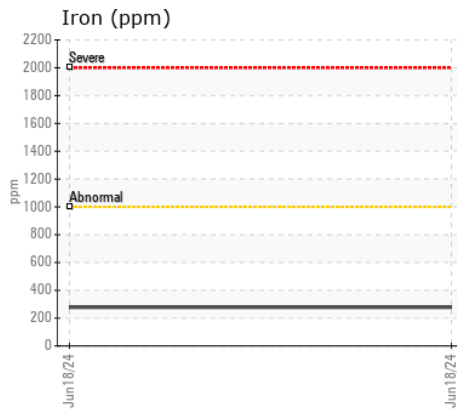
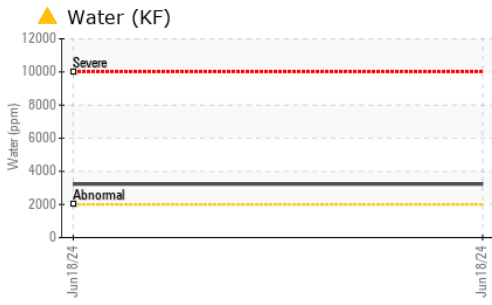
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>30	19	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.2	▲ 0.323	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3230	---	---
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	>0.2	0.2%	---	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	---	---
Boron	ppm	ASTM D5185m	100	119	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	2	---	---
Manganese	ppm	ASTM D5185m		5	---	---
Magnesium	ppm	ASTM D5185m	0	27	---	---
Calcium	ppm	ASTM D5185m	3800	3939	---	---
Phosphorus	ppm	ASTM D5185m	1200	1229	---	---
Zinc	ppm	ASTM D5185m	1500	1522	---	---
Sulfur	ppm	ASTM D5185m	6500	3976	---	---
Visc @ 40°C	cSt	ASTM D445	52.0	45.7	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : VCP439826

**Lab Number** : 06221610

**Unique Number** : 11099807

**Test Package** : MOB 1 ( Additional Tests: KF )

**Received** : 26 Jun 2024

**Tested** : 27 Jun 2024

**Diagnosed** : 28 Jun 2024 - Angela Borella

**OLDCASTLE LAWN AND GARDEN**

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)