



# VOLVO

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**

**SEVERE**

**NORMAL**



Area

**[730410]**

Machine Id

**310132 VOLVO EC380 310132**

Component

**Front Left Final Drive**

Fluid

**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- 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		VCP439839	---	---
Sample Date		Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info		11538	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				SEVERE	---	---

### WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 681	---	---
Chromium	ppm	ASTM D5185m	>10	7	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	8	---	---
Lead	ppm	ASTM D5185m	>25	2	---	---
Copper	ppm	ASTM D5185m	>50	3	---	---
Tin	ppm	ASTM D5185m	>10	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

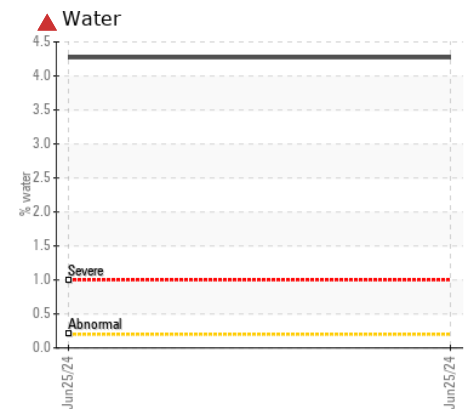
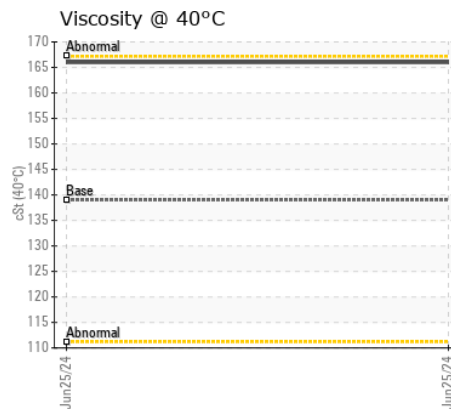
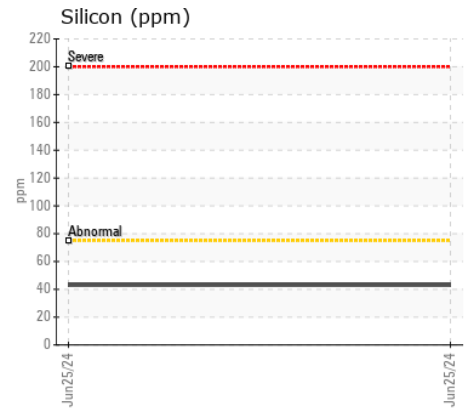
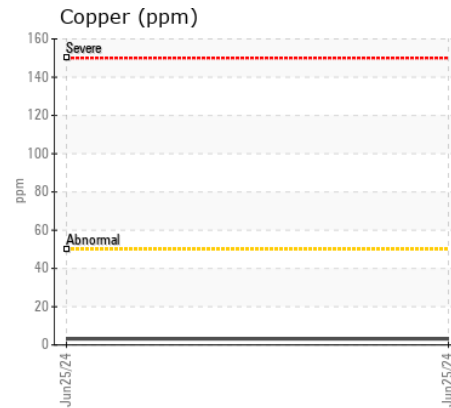
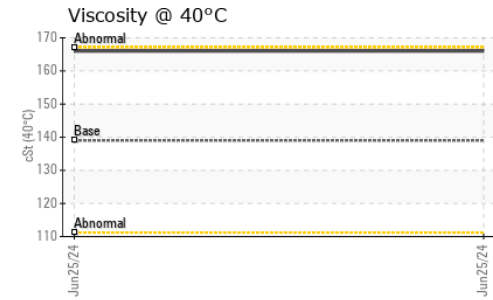
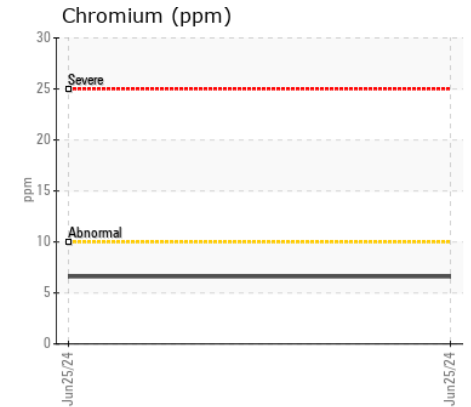
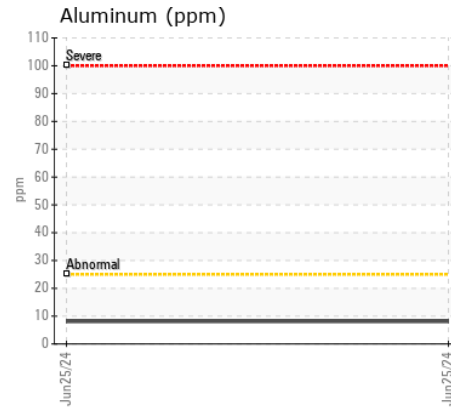
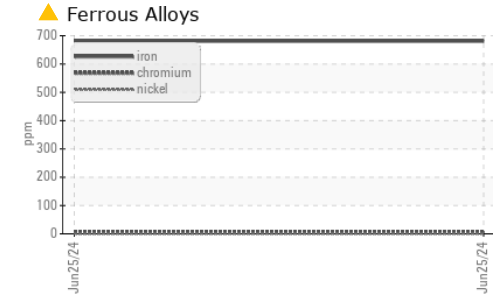
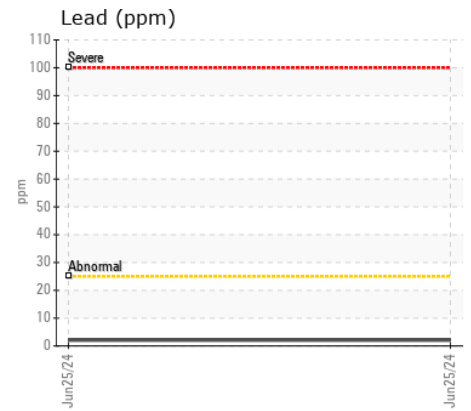
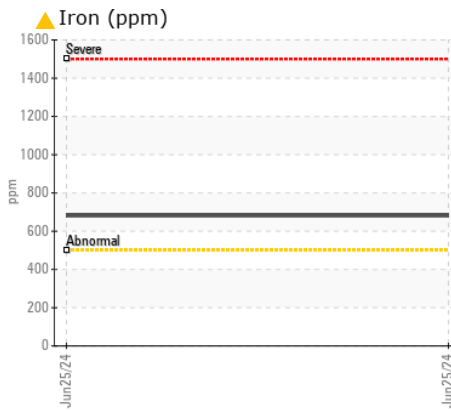
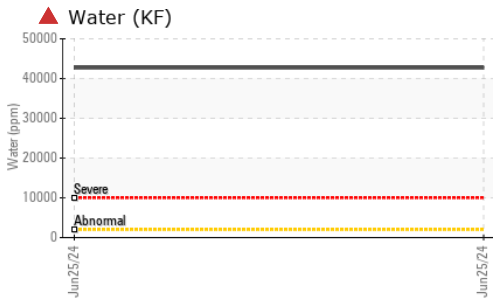
Appearance is milky. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	43	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.2	▲ 4.27	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 42700	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m	379	79	---	---
Barium	ppm	ASTM D5185m	0.0	<1	---	---
Molybdenum	ppm	ASTM D5185m	0.8	2	---	---
Manganese	ppm	ASTM D5185m	0.0	4	---	---
Magnesium	ppm	ASTM D5185m	31	27	---	---
Calcium	ppm	ASTM D5185m	38	231	---	---
Phosphorus	ppm	ASTM D5185m	1077	757	---	---
Zinc	ppm	ASTM D5185m	46	81	---	---
Sulfur	ppm	ASTM D5185m	23526	28832	---	---
Visc @ 40°C	cSt	ASTM D445	139	166	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP439839  
**Lab Number** : 06223785  
**Unique Number** : 11101982  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Received** : 28 Jun 2024  
**Tested** : 01 Jul 2024  
**Diagnosed** : 01 Jul 2024 - Jonathan Hester

**TRADEMARK METALS RECYCLING - SUNSHINE**  
 13200 CAIRO LN  
 OPA LOCKA, FL  
 US 33054  
 Contact: Service Manager

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)

T:  
F: