



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[728449]**

Machine Id

**VOLVO EC480 314300**

Component

**Swing Drive**

Fluid

**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP447039</b>	VCP405125	VCP393768
Sample Date		Client Info		<b>20 Jun 2024</b>	08 May 2023	08 May 2023
Machine Age	hrs	Client Info		<b>6215</b>	5393	5393
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	SEVERE	NORMAL

### WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>1200	<b>▲ 1286</b>	▲ 2081	423
Chromium	ppm	ASTM D5185m	>10	<b>▲ 12</b>	▲ 28	4
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	2	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	● 30	4
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>8</b>	3	5
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

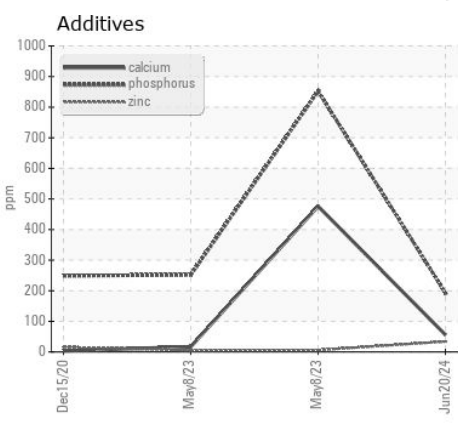
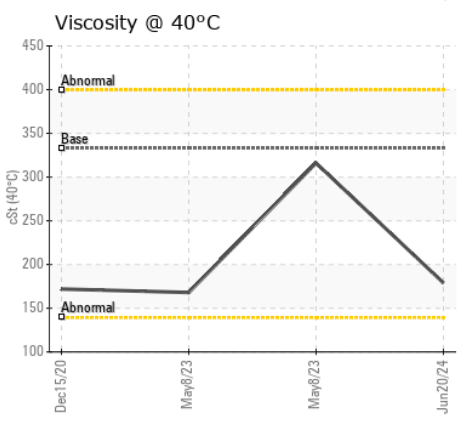
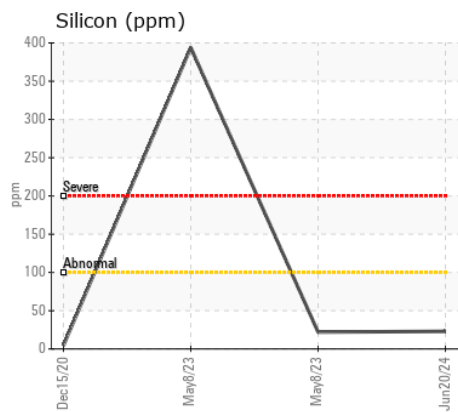
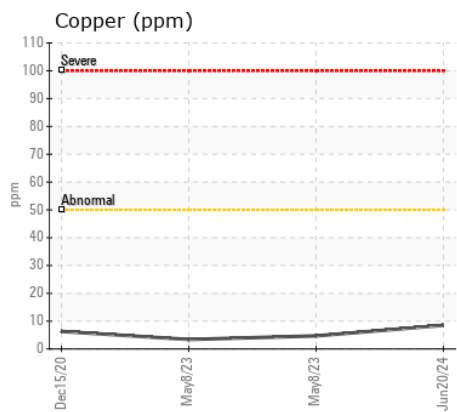
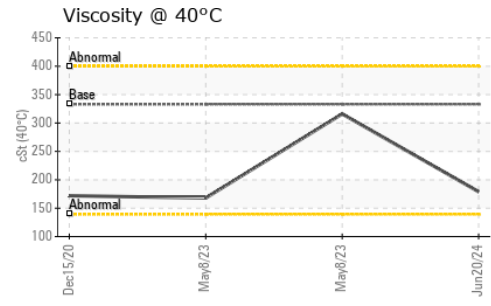
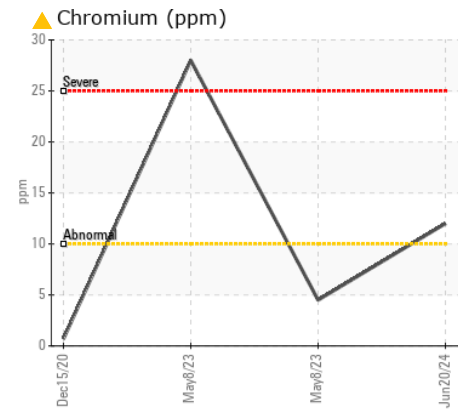
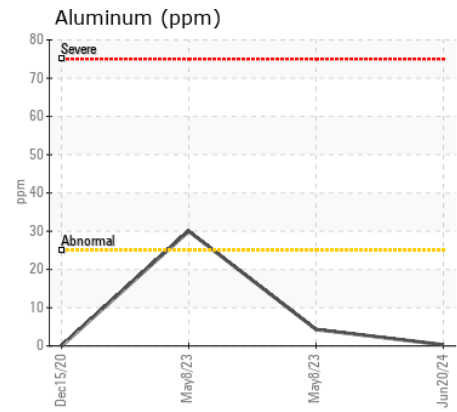
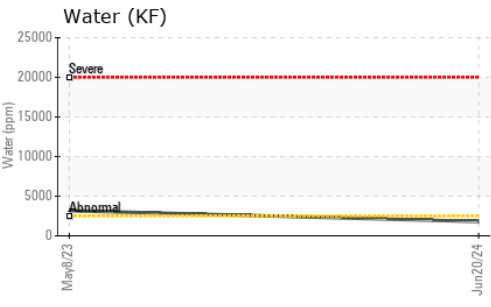
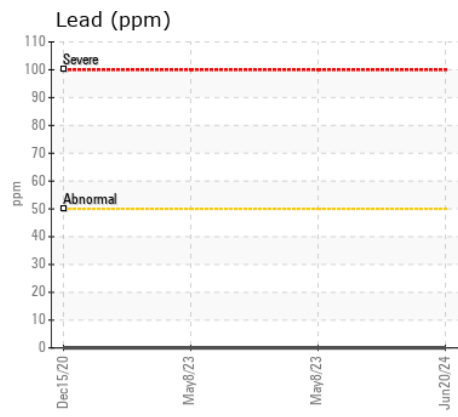
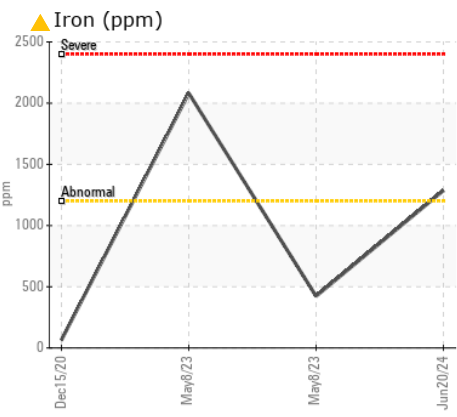
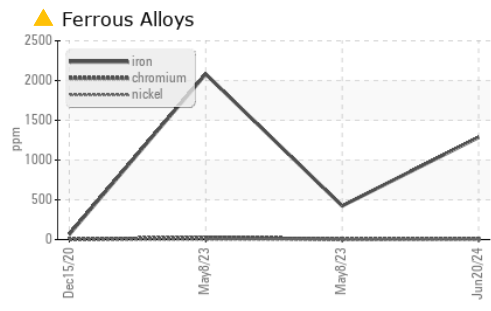
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>23</b>	▲ 394	22
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	6	<1
Water	%	ASTM D6304	>0.25	<b>0.180</b>	▲ 0.318	---
ppm Water	ppm	ASTM D6304	>2500	<b>1800</b>	▲ 3180	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	<b>0.2%</b>	0.2%	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	3	0
Boron	ppm	ASTM D5185m	111	<b>9</b>	120	4
Barium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>2</b>	4	<1
Manganese	ppm	ASTM D5185m	0.0	<b>11</b>	16	4
Magnesium	ppm	ASTM D5185m	39	<b>0</b>	8	0
Calcium	ppm	ASTM D5185m	93	<b>56</b>	476	17
Phosphorus	ppm	ASTM D5185m	920	<b>193</b>	852	252
Zinc	ppm	ASTM D5185m	104	<b>34</b>	6	5
Sulfur	ppm	ASTM D5185m	20179	<b>15630</b>	32718	17338
Visc @ 40°C	cSt	ASTM D445	333	<b>179</b>	● 316	168



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447039 **Received** : 26 Jun 2024  
**Lab Number** : 06221612 **Tested** : 27 Jun 2024  
**Unique Number** : 11099809 **Diagnosed** : 28 Jun 2024 - Angela Borella  
**Test Package** : MOB 1 ( Additional Tests: KF )

**FIVE STONES MINE**  
 MORNING STAR FARM RD  
 CANAL POINT, FL  
 US 33430  
 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)

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