



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[IMPORT AUTO]**  
 Machine Id  
**VOLVO EC220E 310953**  
 Component  
**Rear Right Final Drive**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP437842</b>	VCP334695	---
Sample Date		Client Info		<b>26 Feb 2024</b>	20 Jul 2021	---
Machine Age	hrs	Client Info		<b>3107</b>	1253	---
Oil Age	hrs	Client Info		<b>0</b>	1253	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>6000	<b>444</b>	▲ 1109	---
Chromium	ppm	ASTM D5185m	>60	<b>4</b>	16	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	3	---
Titanium	ppm	ASTM D5185m	>35	<b>&lt;1</b>	1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>350	<b>3</b>	17	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	1	---
Copper	ppm	ASTM D5185m	>15	<b>0</b>	2	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

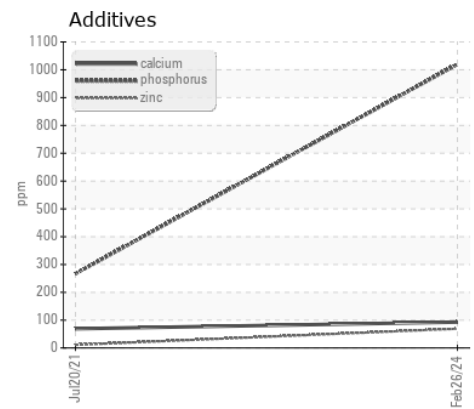
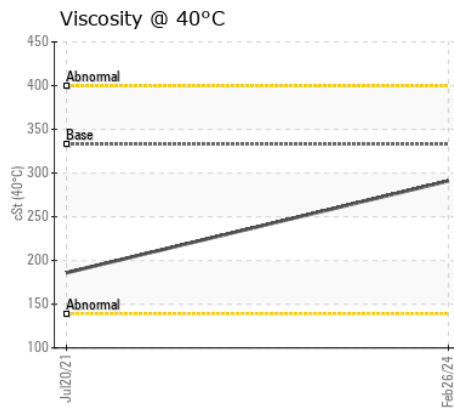
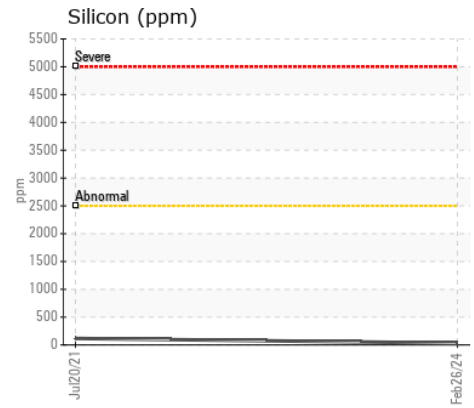
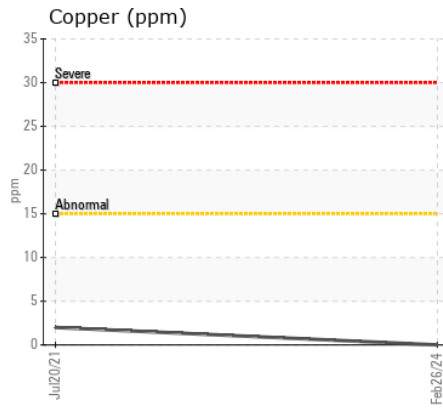
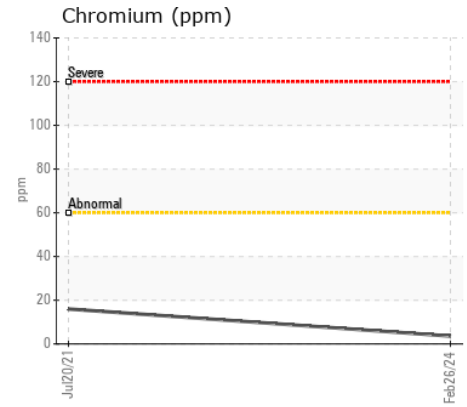
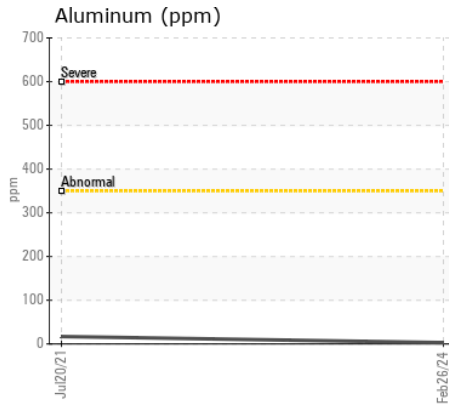
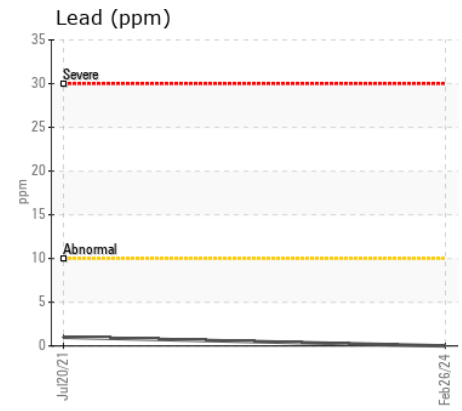
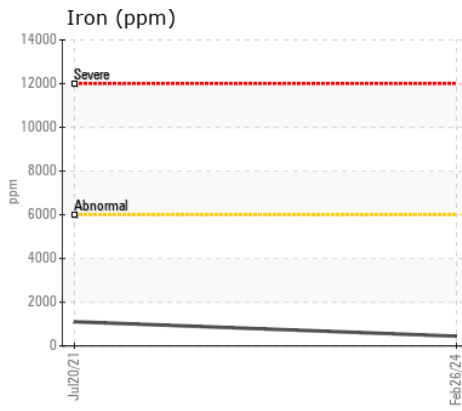
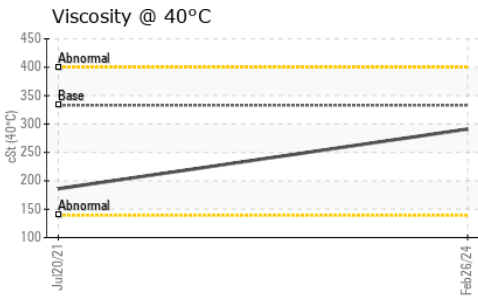
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>2500	<b>33</b>	▲ 117	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Boron	ppm	ASTM D5185m	111	<b>119</b>	10	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.9	<b>2</b>	<1	---
Manganese	ppm	ASTM D5185m	0.0	<b>4</b>	13	---
Magnesium	ppm	ASTM D5185m	39	<b>34</b>	<1	---
Calcium	ppm	ASTM D5185m	93	<b>93</b>	69	---
Phosphorus	ppm	ASTM D5185m	920	<b>1020</b>	267	---
Zinc	ppm	ASTM D5185m	104	<b>69</b>	11	---
Sulfur	ppm	ASTM D5185m	20179	<b>30551</b>	10331	---
Visc @ 40°C	cSt	ASTM D445	333	<b>291</b>	186	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP437842  
**Lab Number** : 06160743  
**Unique Number** : 10996166  
**Test Package** : MOB 1

**Received** : 25 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Wes Davis

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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)