



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**[41792 ARMSTRONG CONS]**  
 Machine Id  
**VOLVO EC220EL 315387**  
 Component  
**Swing Drive**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP444898	---	---
Sample Date		Client Info		10 Apr 2024	---	---
Machine Age	hrs	Client Info		1016	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	190	---	---
Chromium	ppm	ASTM D5185m	>10	2	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		1	---	---
Aluminum	ppm	ASTM D5185m	>25	<1	---	---
Lead	ppm	ASTM D5185m	>50	0	---	---
Copper	ppm	ASTM D5185m	>50	13	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

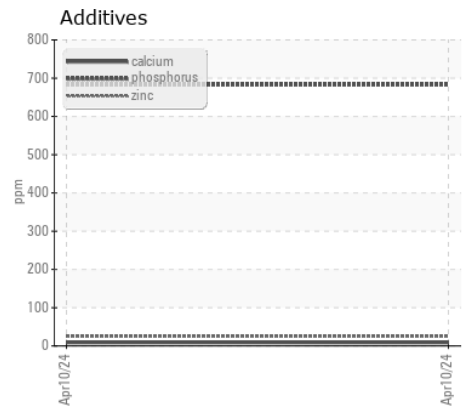
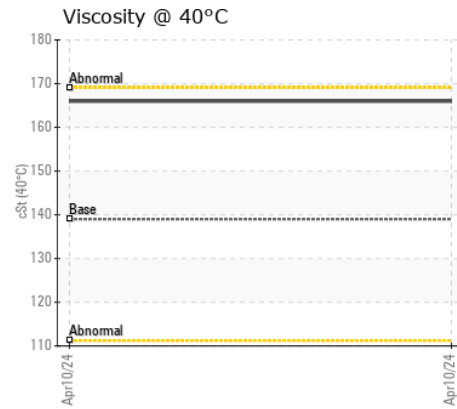
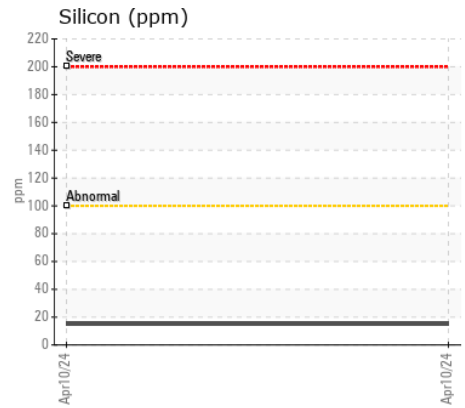
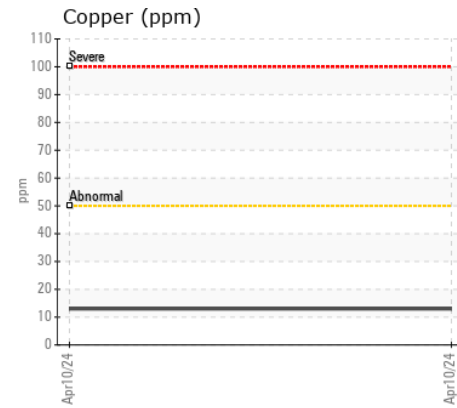
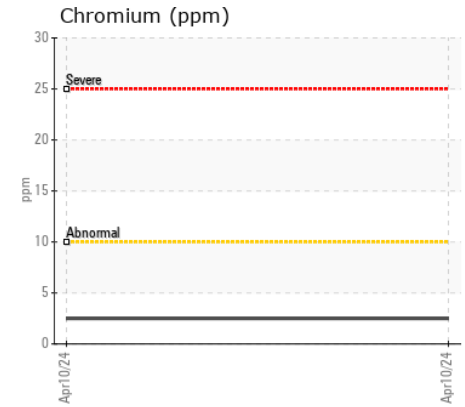
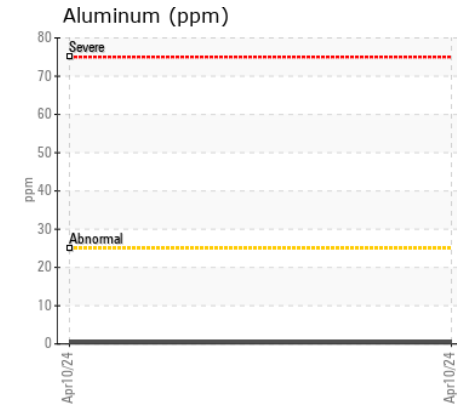
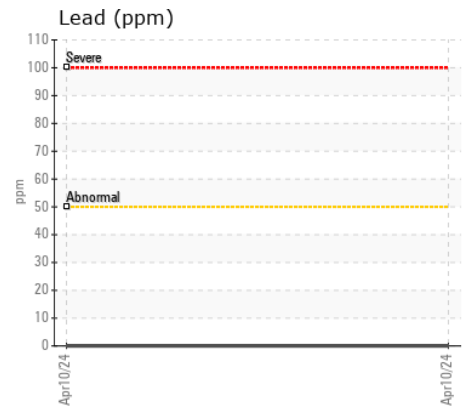
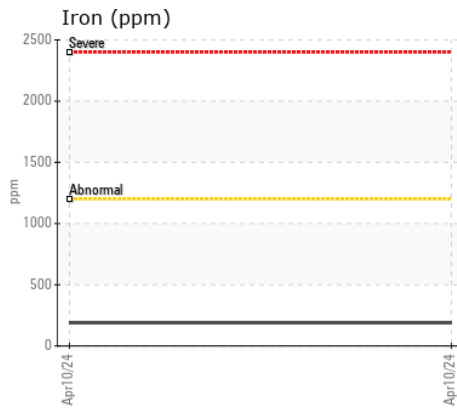
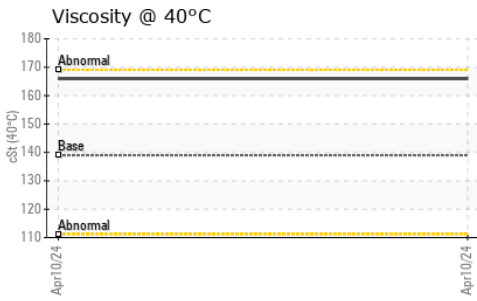
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	15	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.25	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.25	NEG	---	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m	379	36	---	---
Barium	ppm	ASTM D5185m	0.0	4	---	---
Molybdenum	ppm	ASTM D5185m	0.8	<1	---	---
Manganese	ppm	ASTM D5185m	0.0	4	---	---
Magnesium	ppm	ASTM D5185m	31	2	---	---
Calcium	ppm	ASTM D5185m	38	9	---	---
Phosphorus	ppm	ASTM D5185m	1077	683	---	---
Zinc	ppm	ASTM D5185m	46	25	---	---
Sulfur	ppm	ASTM D5185m	23526	22751	---	---
Visc @ 40°C	cSt	ASTM D445	139	166	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP444898  
**Lab Number** : 06146220  
**Unique Number** : 10976298  
**Test Package** : MOB 1

**Received** : 11 Apr 2024  
**Tested** : 12 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Don Baldrige

**215 - ASCENDUM MACHINERY INC - CAYCE**  
 2303 AIRPORT BLVD  
 CAYCE, SC  
 US 29033  
 Contact: TAMI BROWDER

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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