



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SPM717258]**  
 Machine Id  
**VOLVO EC300DL 210200**  
 Component  
**Swing Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP444416</b>	VCP420679	VCP280165
Sample Date		Client Info		<b>07 Jun 2024</b>	12 Sep 2023	22 Aug 2020
Machine Age	hrs	Client Info		<b>6458</b>	5950	4200
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>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>2</b>	70	124
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	2	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	4	0
Lead	ppm	ASTM D5185m	>50	<b>0</b>	2	<1
Copper	ppm	ASTM D5185m	>50	<b>0</b>	12	7
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

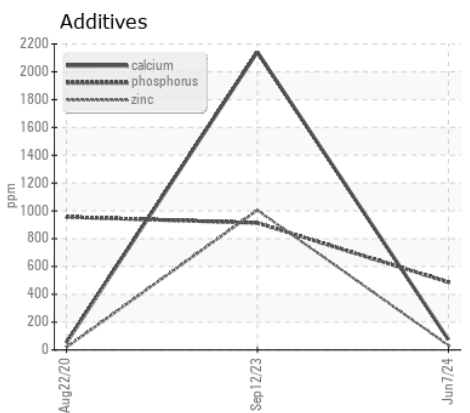
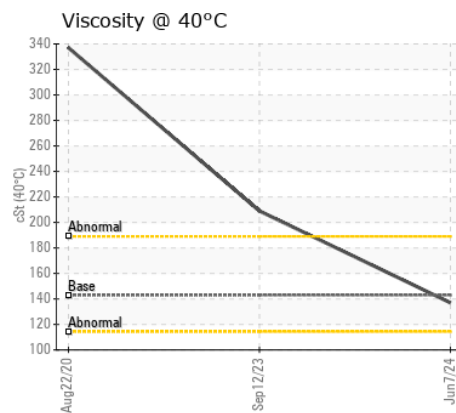
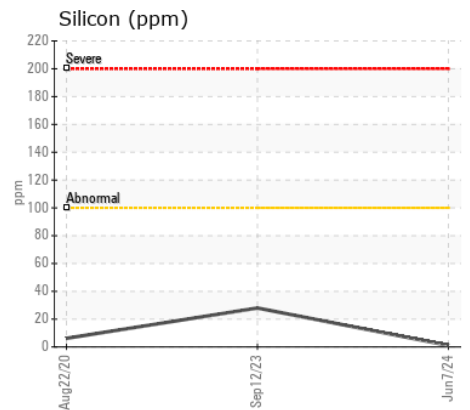
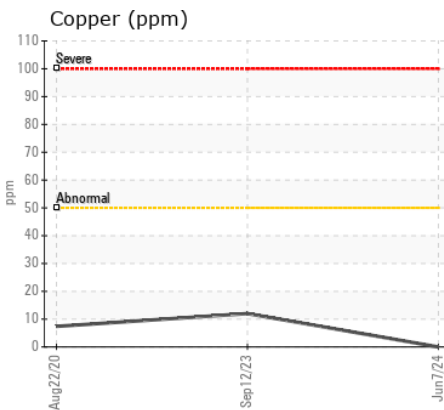
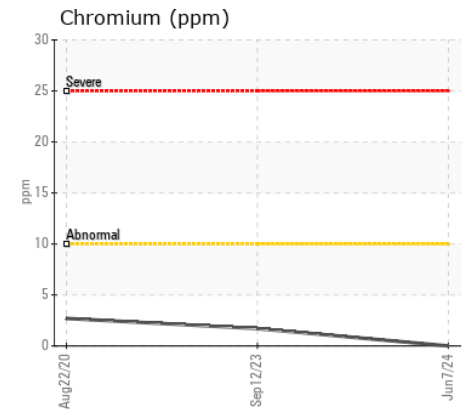
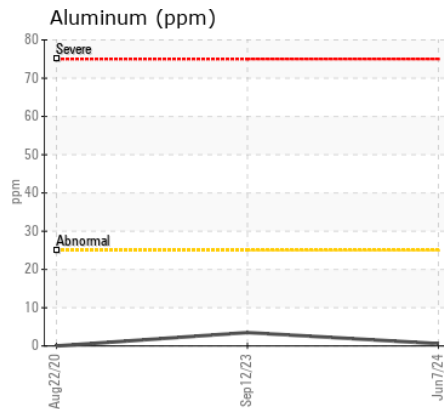
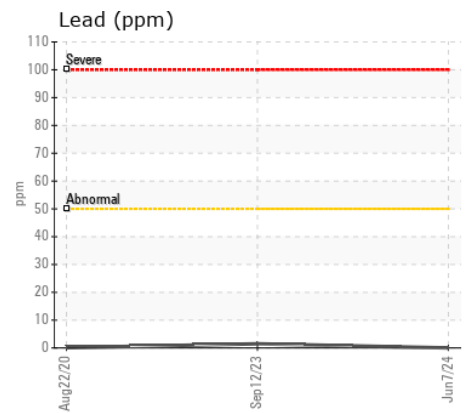
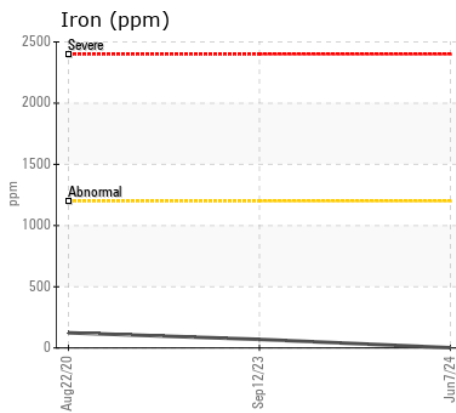
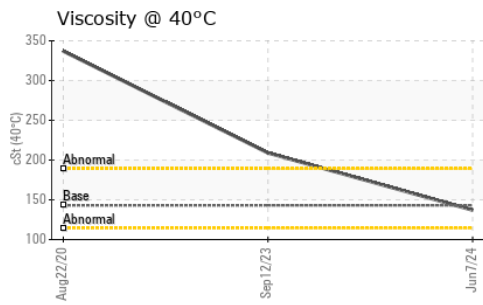
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>1</b>	28	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water		WC Method	>0.25	<b>NEG</b>	NEG	NEG
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>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	<b>0</b>	0	5
Boron	ppm	ASTM D5185m	400	<b>0</b>	38	227
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m	12	<b>3</b>	24	3
Calcium	ppm	ASTM D5185m	150	<b>75</b>	2142	52
Phosphorus	ppm	ASTM D5185m	1650	<b>487</b>	913	956
Zinc	ppm	ASTM D5185m	125	<b>33</b>	1004	18
Sulfur	ppm	ASTM D5185m	22500	<b>27950</b>	7797	22950
Visc @ 40°C	cSt	ASTM D445	143	<b>137</b>	209	337



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP444416  
**Lab Number** : 06217130  
**Unique Number** : 11089994  
**Test Package** : MOB 1

**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Sean Felton

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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)