



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SPM717258 MILBURN]**  
 Machine Id  
**VOLVO EC300DL 210200**  
 Component  
**Rear Right Final 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>VCP445385</b>	VCP419503	VCP280167
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>	SEVERE	SEVERE

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>&lt;1</b>	▲ 1252	▲ 1563
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	▲ 15	▲ 24
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	2	2
Titanium	ppm	ASTM D5185m		<b>0</b>	3	3
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	● 43	● 45
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>50	<b>0</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

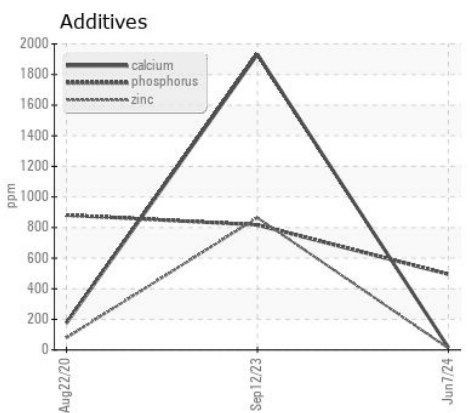
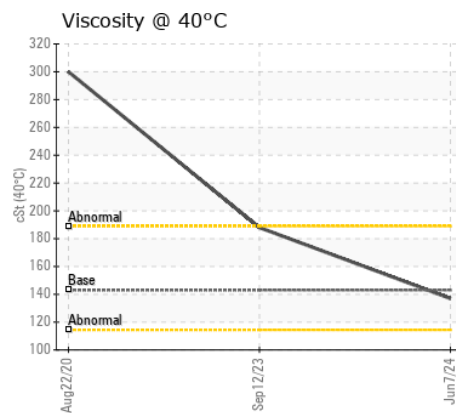
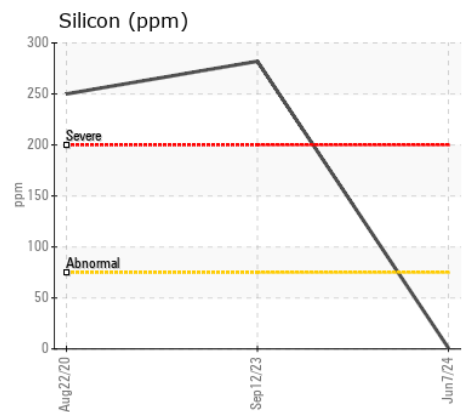
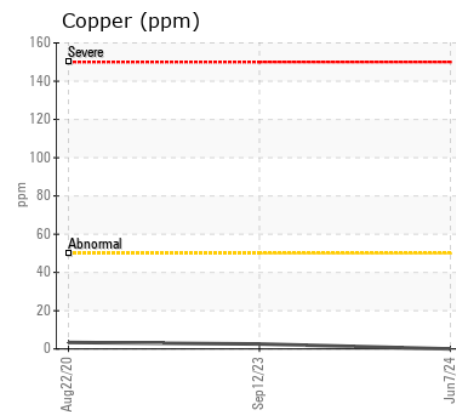
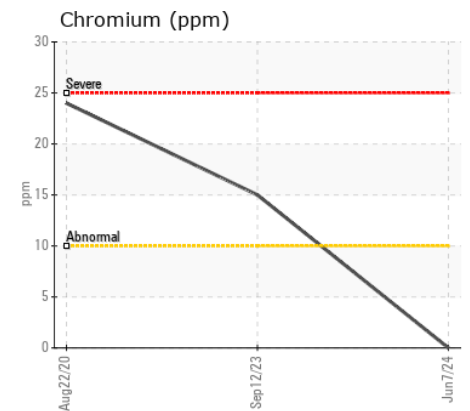
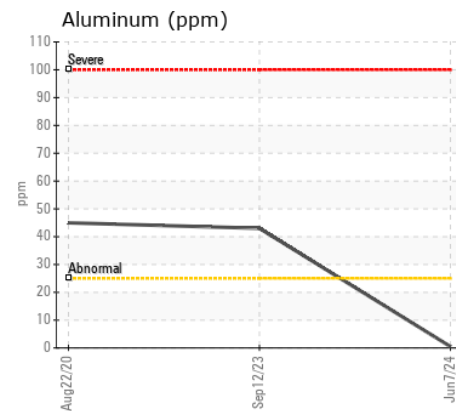
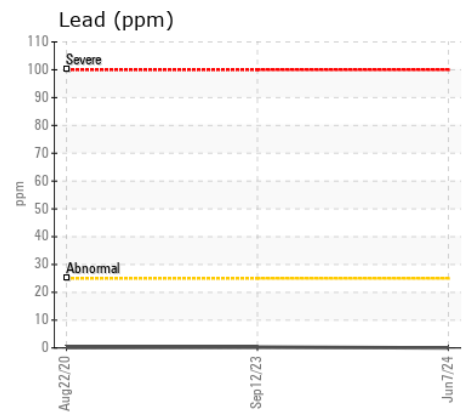
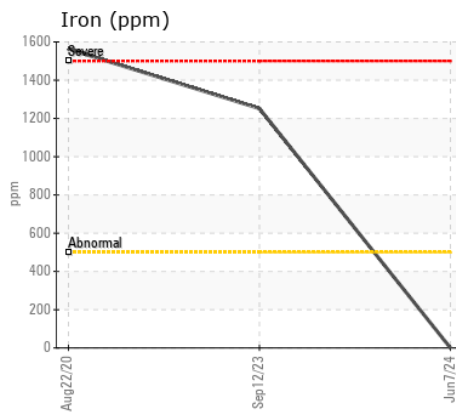
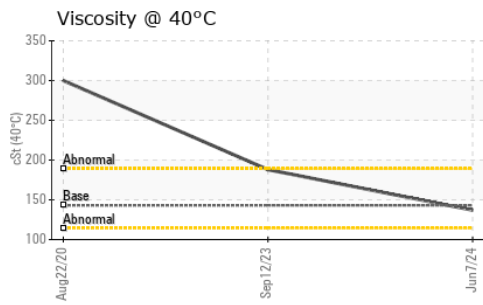
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>&lt;1</b>	▲ 282	▲ 250
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	21	23
Water		WC Method	>0.2	<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	>0.2	<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>	8	9
Boron	ppm	ASTM D5185m	400	<b>0</b>	73	132
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	6	3
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	10	14
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	132	42
Calcium	ppm	ASTM D5185m	150	<b>15</b>	1932	175
Phosphorus	ppm	ASTM D5185m	1650	<b>495</b>	817	881
Zinc	ppm	ASTM D5185m	125	<b>11</b>	864	79
Sulfur	ppm	ASTM D5185m	22500	<b>27964</b>	9978	20732
Visc @ 40°C	cSt	ASTM D445	143	<b>137</b>	188	300



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP445385  
**Lab Number** : 06217131  
**Unique Number** : 11089995  
**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)