



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO EC250EL 314172**  
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		<b>VCP438769</b>	VCP439480	VCP407156
Sample Date		Client Info		<b>14 May 2024</b>	23 Jan 2024	02 Oct 2023
Machine Age	hrs	Client Info		<b>3232</b>	0	2232
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>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>169</b>	152	493
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	5
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	2	0
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>3</b>	3	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

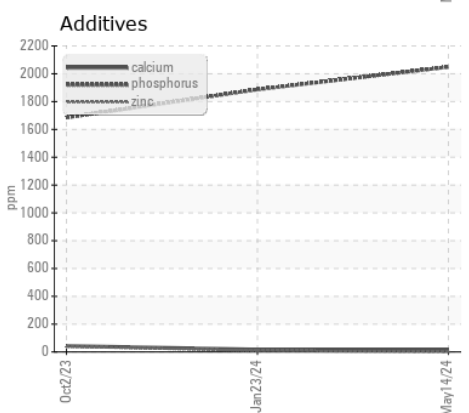
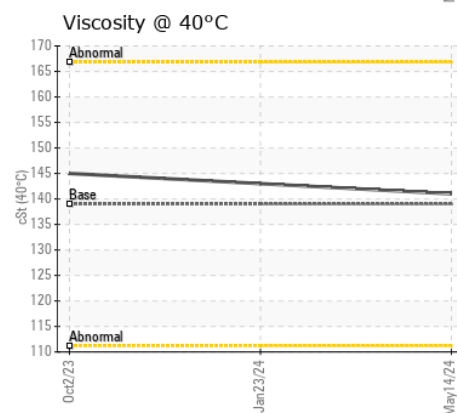
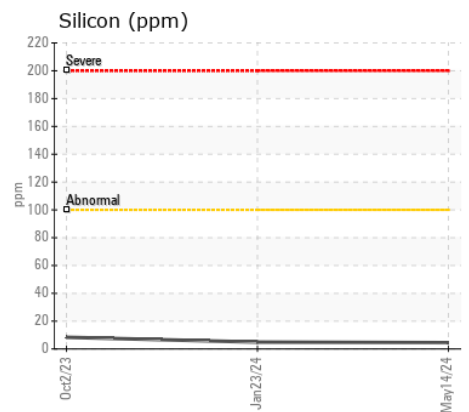
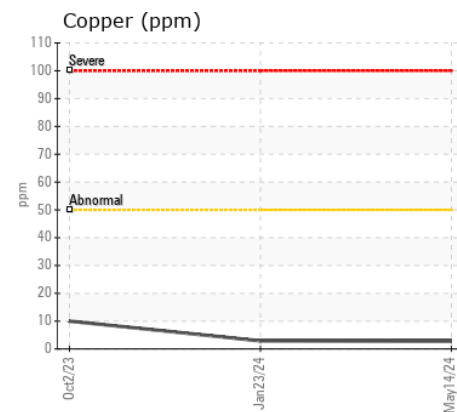
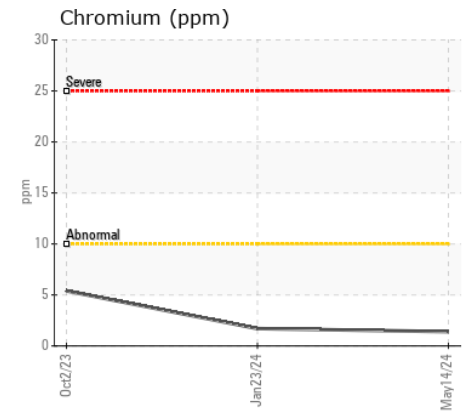
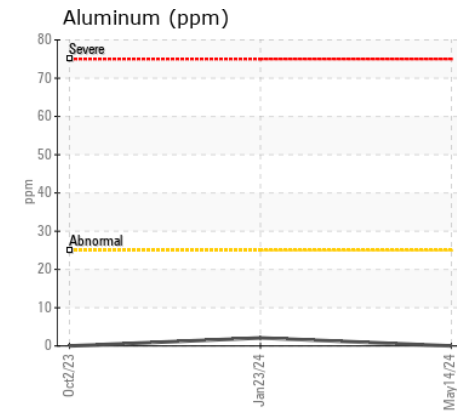
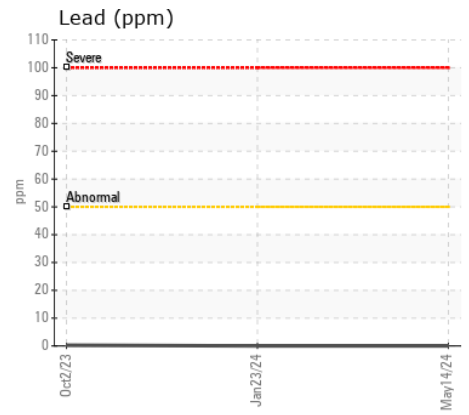
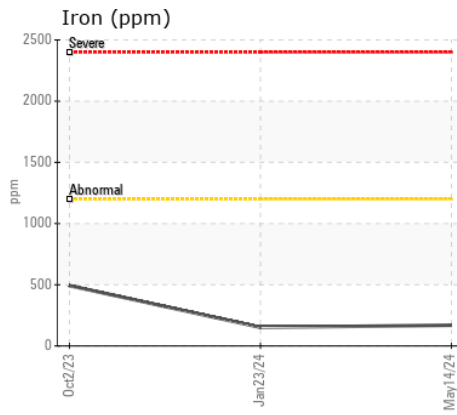
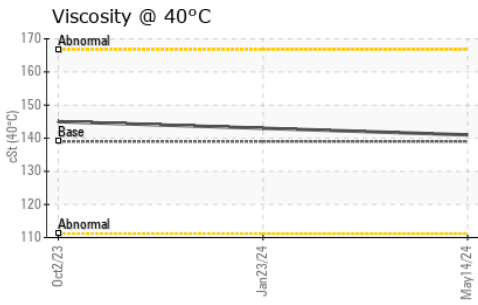
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>4</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<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		<b>0</b>	0	0
Boron	ppm	ASTM D5185m	379	<b>209</b>	● 189	71
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	<1	2
Molybdenum	ppm	ASTM D5185m	0.8	<b>0</b>	● <1	<1
Manganese	ppm	ASTM D5185m	0.0	<b>2</b>	2	6
Magnesium	ppm	ASTM D5185m	31	<b>0</b>	● <1	<1
Calcium	ppm	ASTM D5185m	38	<b>19</b>	● 18	44
Phosphorus	ppm	ASTM D5185m	1077	<b>2049</b>	● 1887	1685
Zinc	ppm	ASTM D5185m	46	<b>0</b>	● 9	39
Sulfur	ppm	ASTM D5185m	23526	<b>29666</b>	● 28877	18292
Visc @ 40°C	cSt	ASTM D445	139	<b>141</b>	● 143	145



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP438769 **Received** : 29 May 2024  
**Lab Number** : 06194405 **Tested** : 31 May 2024  
**Unique Number** : 11056528 **Diagnosed** : 31 May 2024 - Don Baldrige  
**Test Package** : MOB 1

**CITY CARTING**  
 221 OLD GATE LN  
 MILFORD, CT  
 US 06460  
 Contact: TAVINS BANKS  
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 F:

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)