



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO EC250EL 310111**  
Component  
**Front Right Final Drive**  
Fluid  
**MOBIL MOBILUBE HD PLUS 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP416952</b>	VCP339699	VCP378441
Sample Date		Client Info		<b>08 Feb 2024</b>	05 Dec 2023	14 Sep 2023
Machine Age	hrs	Client Info		<b>6098</b>	5899	5630
Oil Age	hrs	Client Info		<b>199</b>	269	262
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>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>133</b>	▲ 610	284
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	5	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>14</b>	16	11
Lead	ppm	ASTM D5185m	>25	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>1</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

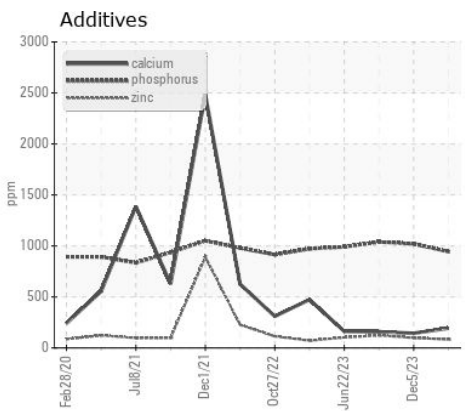
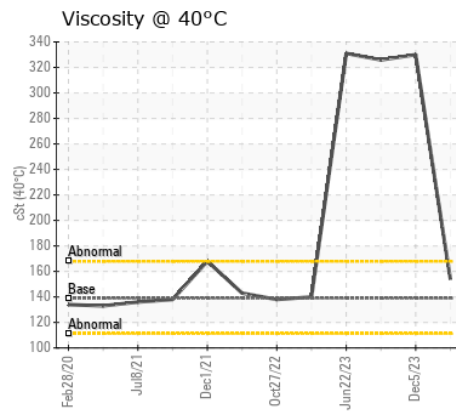
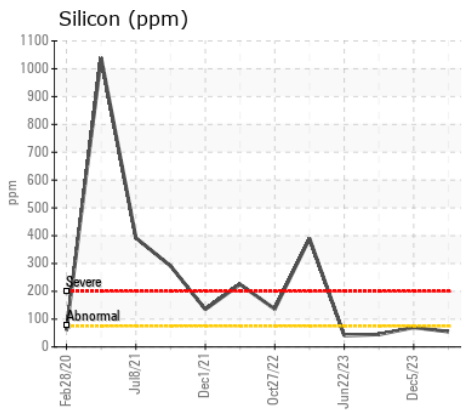
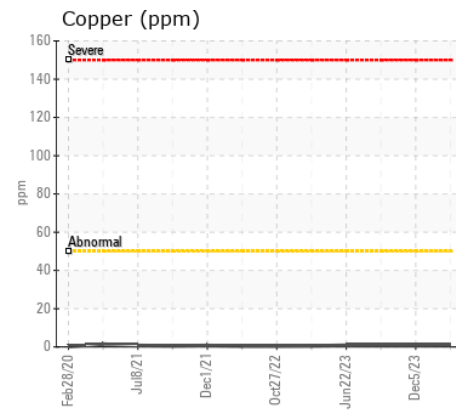
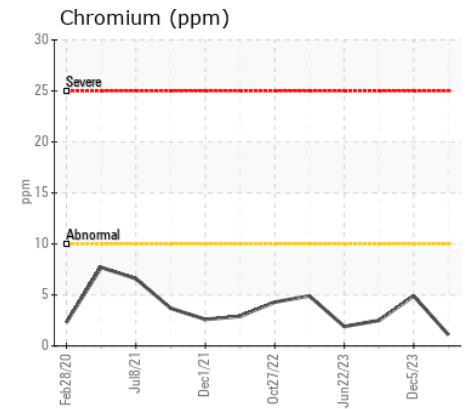
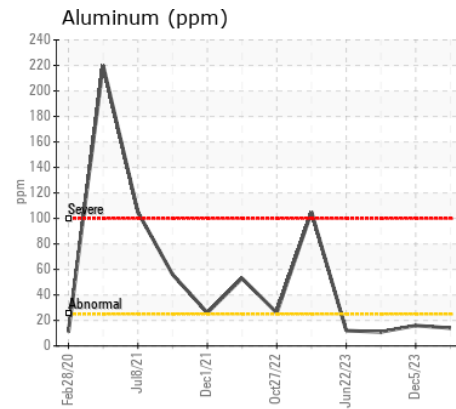
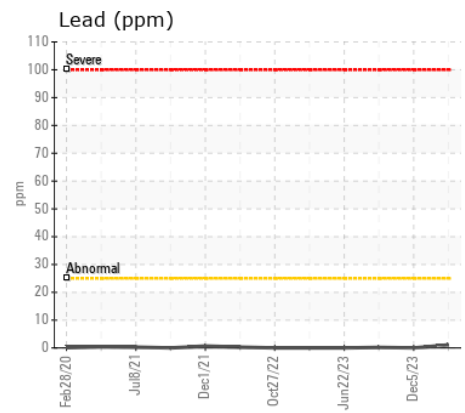
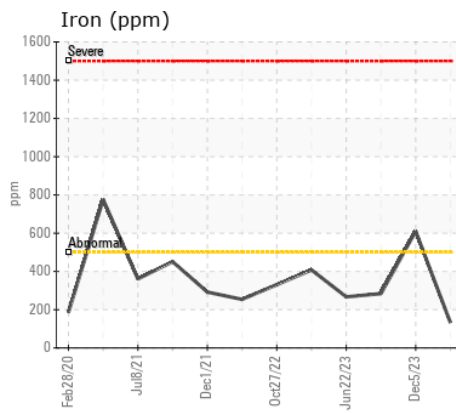
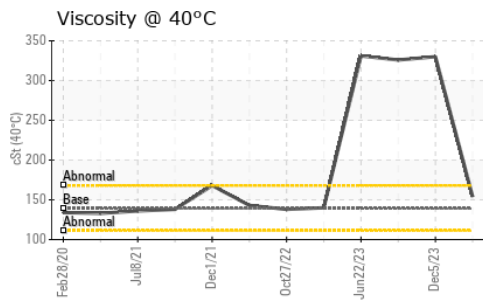
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>55</b>	70	45
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	6	4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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		<b>2</b>	0	2
Boron	ppm	ASTM D5185m		<b>163</b>	169	177
Barium	ppm	ASTM D5185m		<b>3</b>	52	57
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	4	2
Magnesium	ppm	ASTM D5185m		<b>18</b>	8	5
Calcium	ppm	ASTM D5185m		<b>193</b>	144	159
Phosphorus	ppm	ASTM D5185m		<b>945</b>	1020	1039
Zinc	ppm	ASTM D5185m		<b>84</b>	98	123
Sulfur	ppm	ASTM D5185m		<b>24490</b>	31555	29657
Visc @ 40°C	cSt	ASTM D445	139	<b>154</b>	● 330	● 325.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP416952  
**Lab Number** : 06100411  
**Unique Number** : 10898641  
**Test Package** : MOB 1

**Received** : 26 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 28 Feb 2024 - Jonathan Hester

**SCHILDBERG CONSTRUCTION COMPANY**  
 PO BOX 358  
 GREENFIELD, IA  
 US 50849  
 Contact: SCOTT ARMSTRONG  
 sarmstrong@schildberg.com  
 T: (641)743-8237  
 F: (641)743-2486

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)