



# VOLVO

## OIL ANALYSIS REPORT

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

Area  
**[717066 MOSAIC]**  
 Machine Id  
**VOLVO EC480EL 315302**  
 Component  
**Hydraulic System**  
 Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP443902</b>	VCP440778	---
Sample Date		Client Info		<b>29 May 2024</b>	29 Nov 2023	---
Machine Age	hrs	Client Info		<b>1028</b>	516	---
Oil Age	hrs	Client Info		<b>1028</b>	516	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	<b>3</b>	2	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	1	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>16</b>	9	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

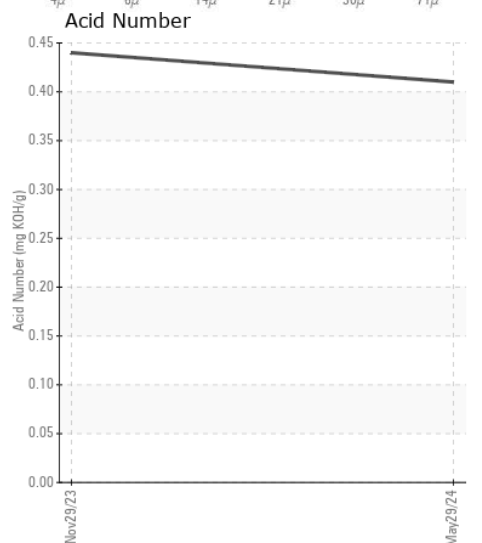
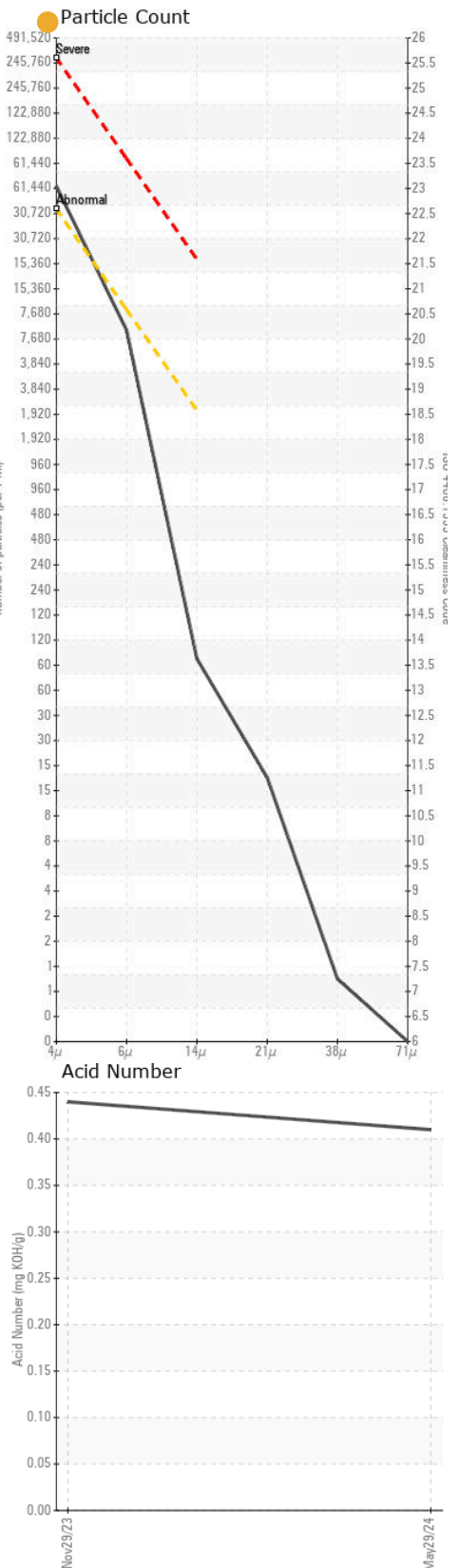
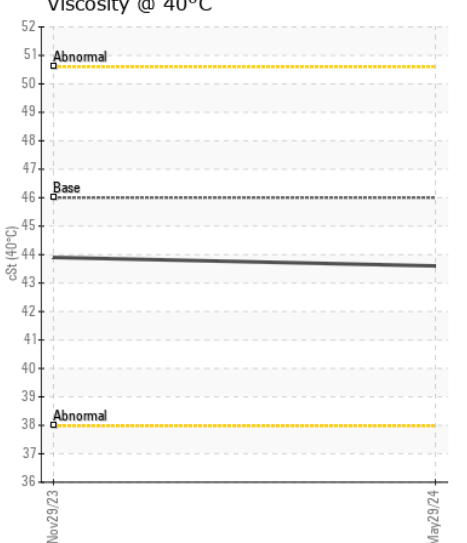
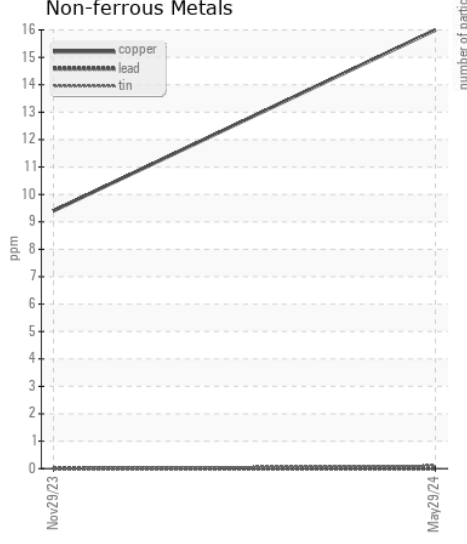
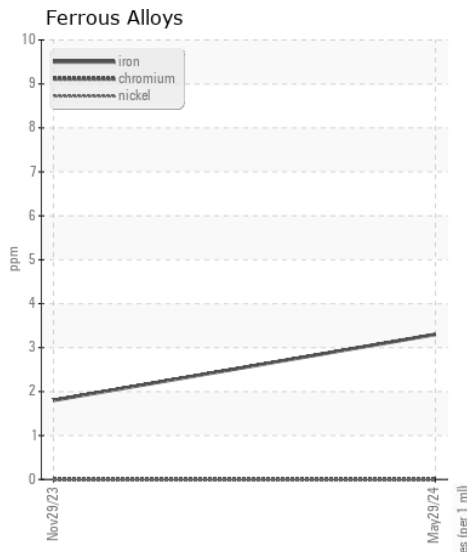
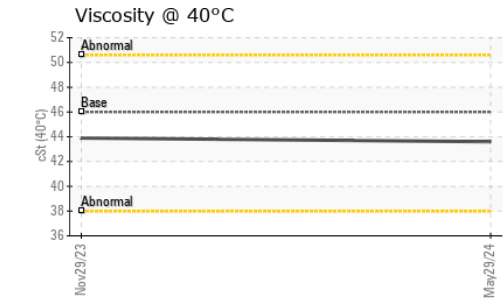
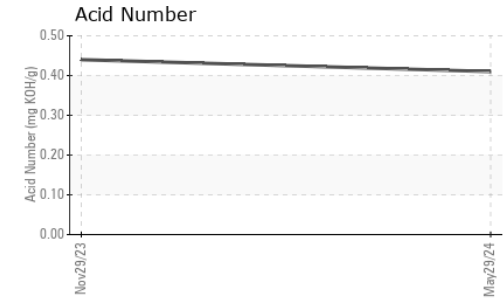
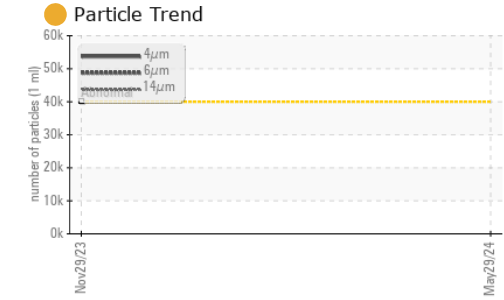
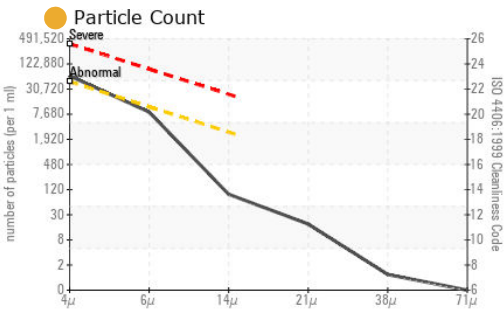
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>40000	<b>54862</b>	---	---
Particles >6µm		ASTM D7647	>10000	<b>7520</b>	---	---
Particles >14µm		ASTM D7647	>2500	<b>82</b>	---	---
Particles >21µm		ASTM D7647	>640	<b>16</b>	---	---
Particles >38µm		ASTM D7647	>160	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>40	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	<b>23/20/14</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	0	---
Boron	ppm	ASTM D5185m	14	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	2.6	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m	49	<b>71</b>	84	---
Phosphorus	ppm	ASTM D5185m	354	<b>372</b>	364	---
Zinc	ppm	ASTM D5185m	419	<b>468</b>	486	---
Sulfur	ppm	ASTM D5185m	3719	<b>2185</b>	1839	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.41</b>	0.44	---
Visc @ 40°C	cSt	ASTM D445	46	<b>43.6</b>	43.9	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP443902 **Received** : 16 Jul 2024  
**Lab Number** : 06237704 **Tested** : 17 Jul 2024  
**Unique Number** : 11126538 **Diagnosed** : 17 Jul 2024 - Wes Davis  
**Test Package** : MOB 2

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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)