



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[702821 ALTA RENTS]**  
 Machine Id  
**VOLVO L90H 626583**  
 Component  
**Hydraulic System**  
 Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP454743</b>	VCP454748	---
Sample Date		Client Info		<b>23 Apr 2024</b>	23 Apr 2024	---
Machine Age	hrs	Client Info		<b>1279</b>	1279	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>ATTENTION</b>	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	▲ 149	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
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>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>1</b>	11	---
Tin	ppm	ASTM D5185m	>20	<b>0</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

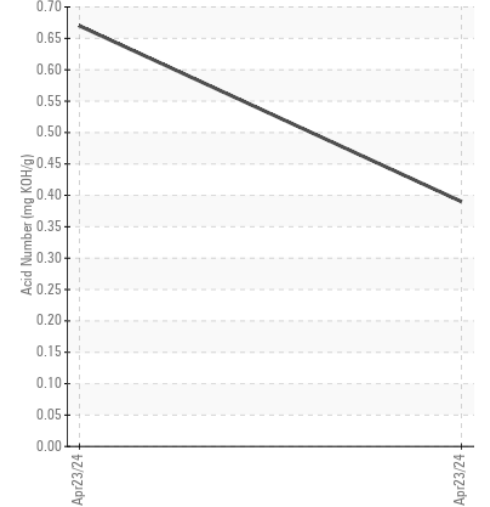
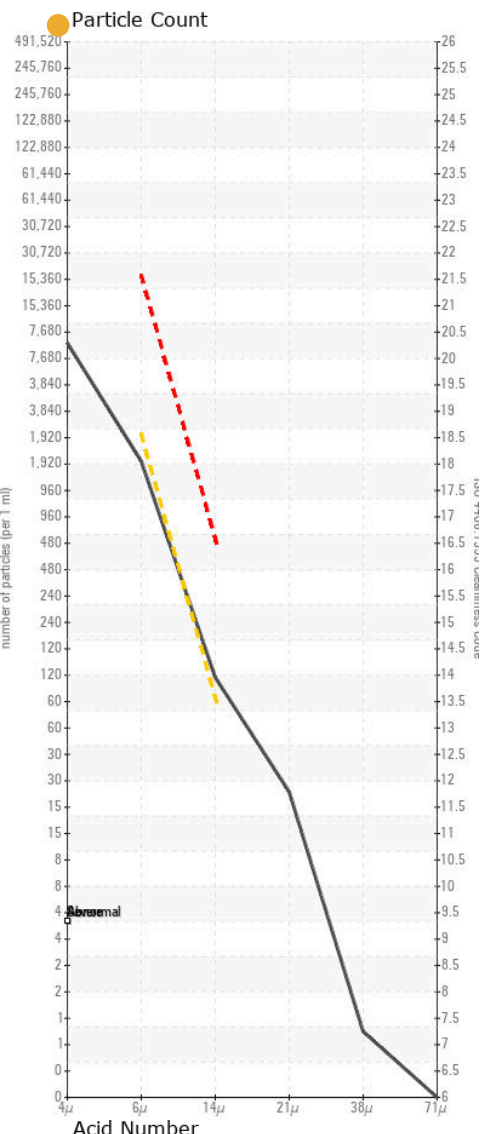
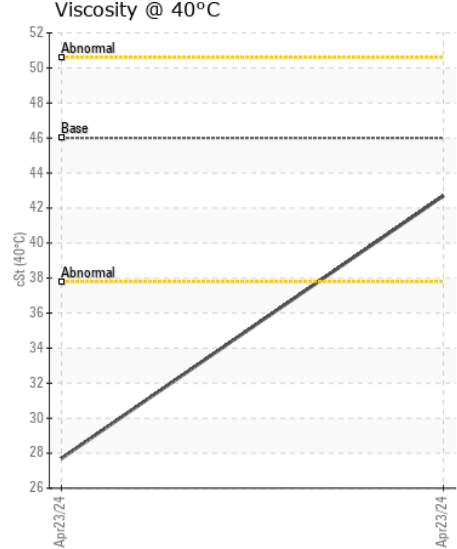
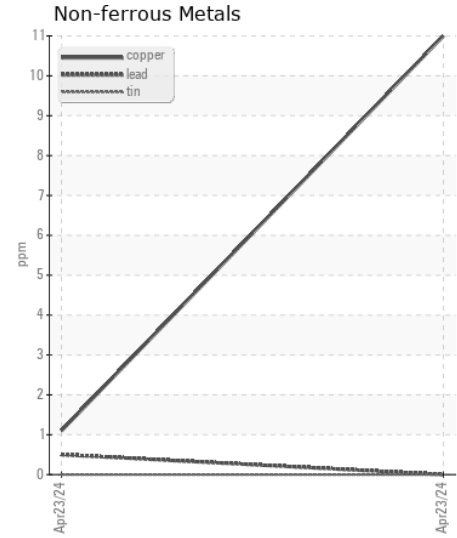
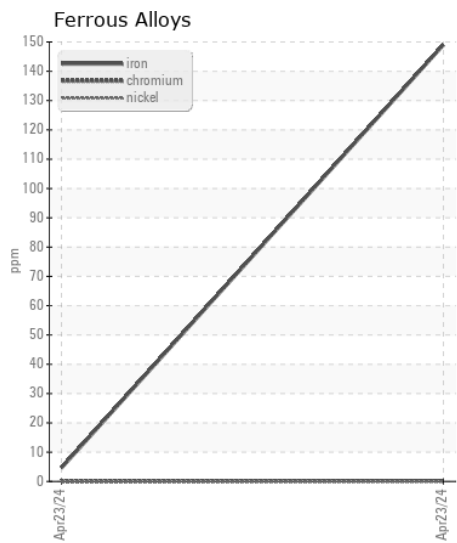
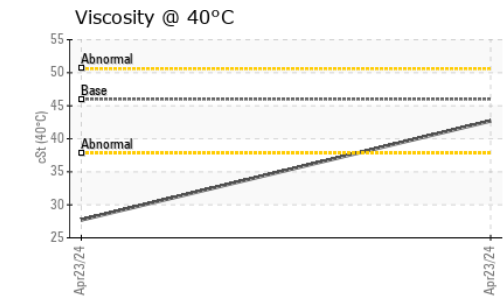
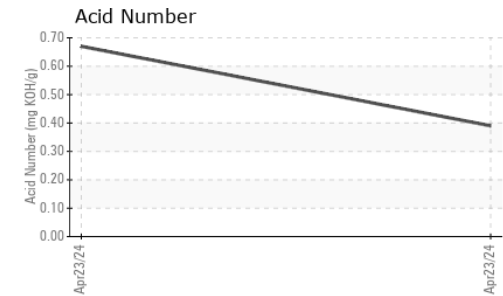
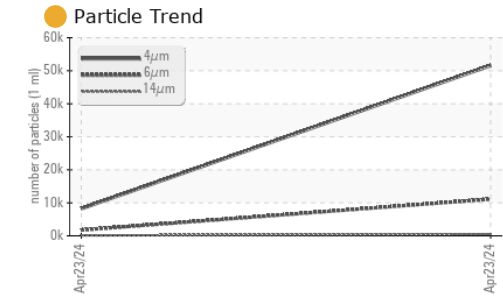
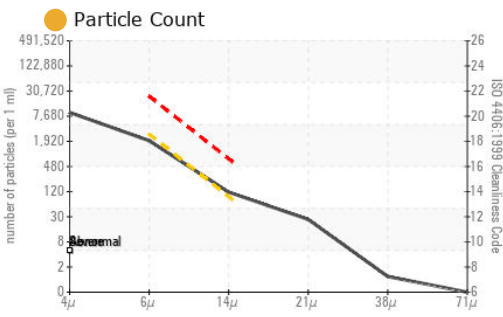
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647		<b>8200</b>	51571	---
Particles >6µm		ASTM D7647	>2500	<b>1742</b>	▲ 11106	---
Particles >14µm		ASTM D7647	>80	● <b>103</b>	▲ 491	---
Particles >21µm		ASTM D7647	>20	<b>23</b>	▲ 129	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	● 9	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/18/13	● <b>20/18/14</b>	▲ 23/21/16	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
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>	5	---
Boron	ppm	ASTM D5185m	14	<b>0</b>	● 63	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	9	---
Magnesium	ppm	ASTM D5185m	2.6	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m	49	<b>54</b>	68	---
Phosphorus	ppm	ASTM D5185m	354	<b>304</b>	● 168	---
Zinc	ppm	ASTM D5185m	419	<b>428</b>	● 36	---
Sulfur	ppm	ASTM D5185m	3719	<b>2762</b>	1823	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.39</b>	0.67	---
Visc @ 40°C	cSt	ASTM D445	46	<b>42.7</b>	▲ 27.7	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP454743  
**Lab Number** : 06161383  
**Unique Number** : 10996806  
**Test Package** : MOB 2

**Received** : 26 Apr 2024  
**Tested** : 29 Apr 2024  
**Diagnosed** : 29 Apr 2024 - Wes Davis

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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)