



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A45G 353131**  
Component  
**Hydraulic System**  
Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP437311</b>	VCP405370	---
Sample Date		Client Info		<b>16 Apr 2024</b>	28 Sep 2023	---
Machine Age	hrs	Client Info		<b>3526</b>	2371	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
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>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>3</b>	4	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	4	---
Lead	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Copper	ppm	ASTM D5185m	>150	<b>4</b>	3	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
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

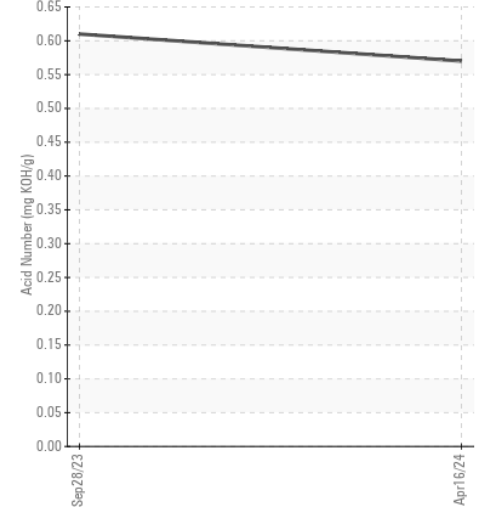
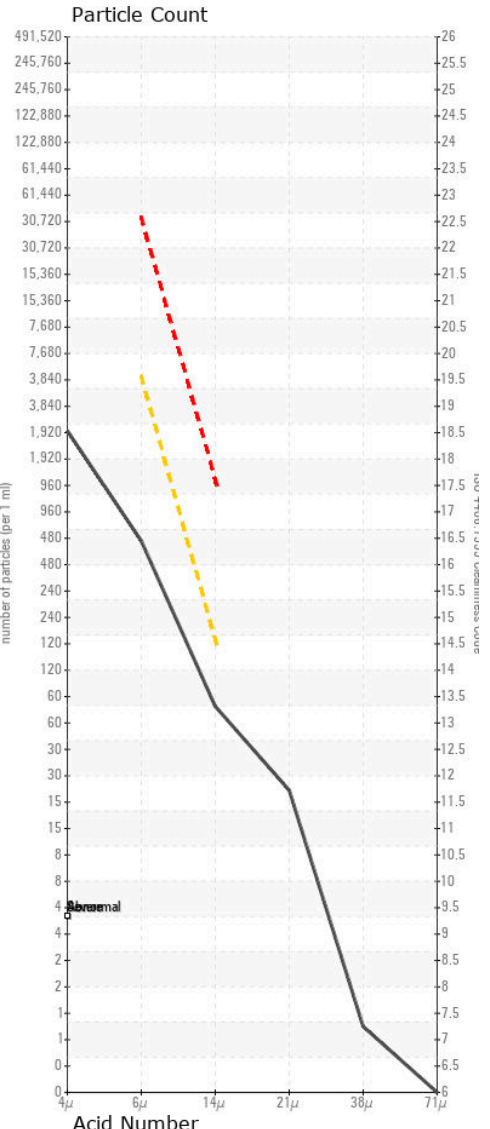
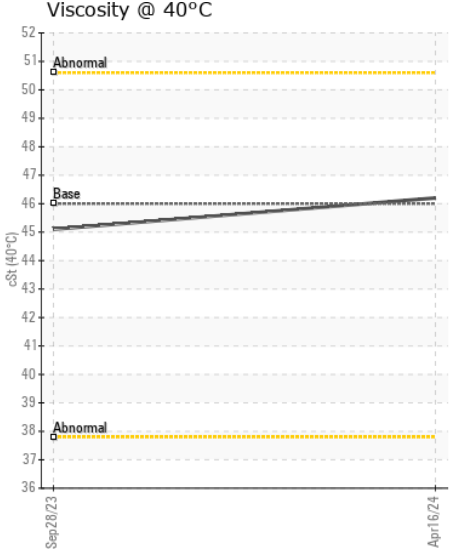
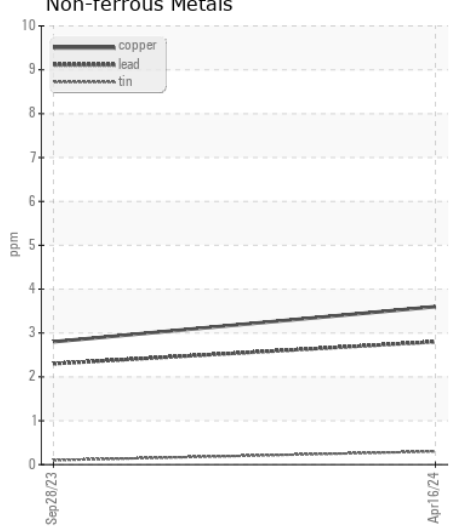
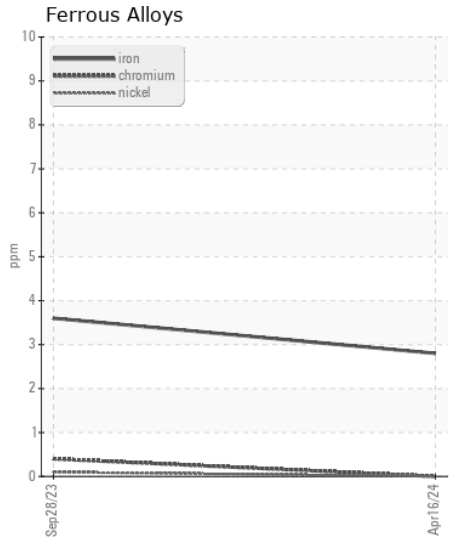
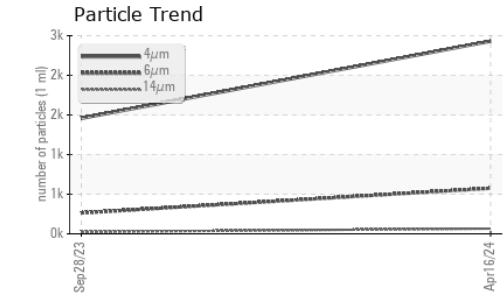
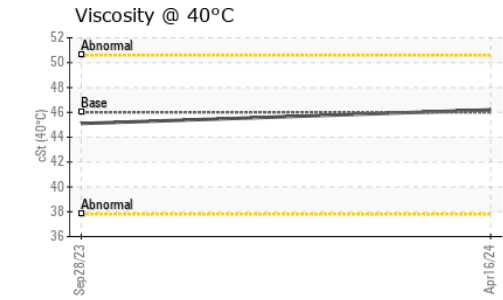
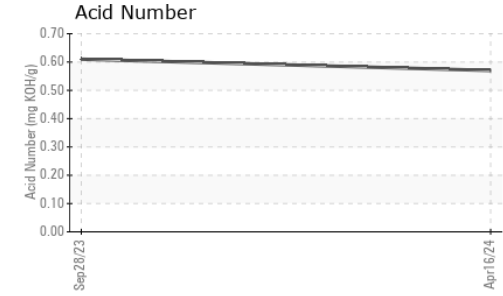
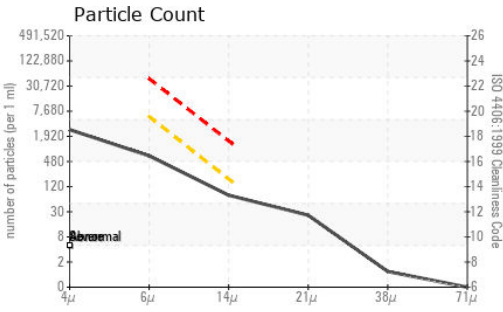
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>13</b>	12	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647		<b>2431</b>	1457	---
Particles >6µm		ASTM D7647	>5000	<b>575</b>	263	---
Particles >14µm		ASTM D7647	>160	<b>66</b>	23	---
Particles >21µm		ASTM D7647	>40	<b>22</b>	5	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>18/16/13</b>	18/15/12	---
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>4</b>	<1	---
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>	<1	---
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	2.6	<b>7</b>	6	---
Calcium	ppm	ASTM D5185m	49	<b>566</b>	512	---
Phosphorus	ppm	ASTM D5185m	354	<b>467</b>	428	---
Zinc	ppm	ASTM D5185m	419	<b>574</b>	576	---
Sulfur	ppm	ASTM D5185m	3719	<b>2021</b>	1643	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.57</b>	0.61	---
Visc @ 40°C	cSt	ASTM D445	46	<b>46.2</b>	45.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP437311 **Received** : 19 Apr 2024  
**Lab Number** : 06154262 **Tested** : 22 Apr 2024  
**Unique Number** : 10989685 **Diagnosed** : 22 Apr 2024 - Wes Davis  
**Test Package** : MOB 2

**ALTA EQUIPMENT COMPANY**  
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 US 33905  
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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)