



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



Area  
**[W02008475]**  
Machine Id  
**VOLVO A30G 752450**  
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. ( Customer Sample Comment: W02008475 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0002480</b>	ML0001416	---
Sample Date		Client Info		<b>25 Jun 2024</b>	10 Apr 2024	---
Machine Age	hrs	Client Info		<b>3884</b>	3499	---
Oil Age	hrs	Client Info		<b>385</b>	3499	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	8	---
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>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>2</b>	3	---
Tin	ppm	ASTM D5185m	>20	<b>0</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**

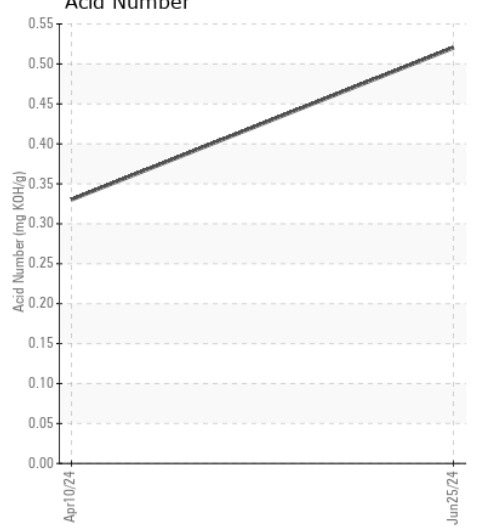
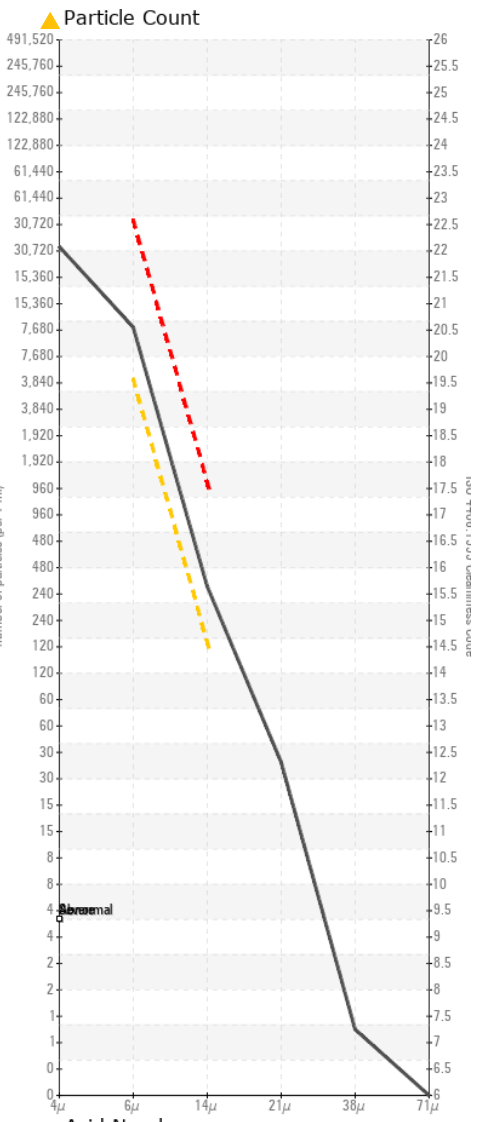
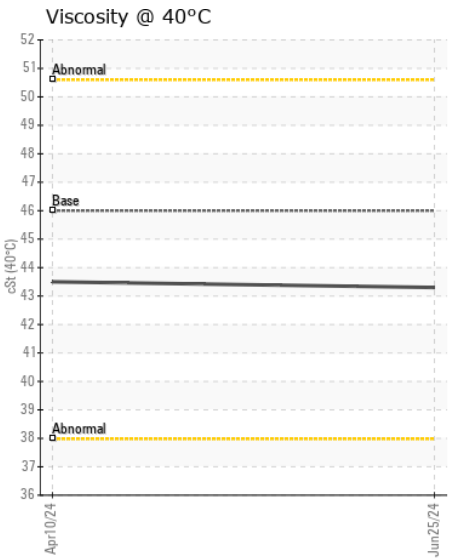
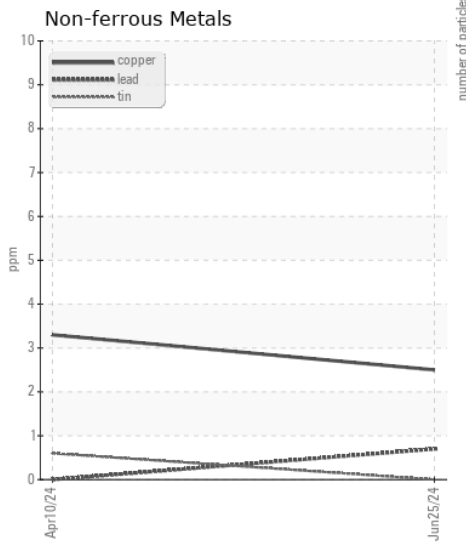
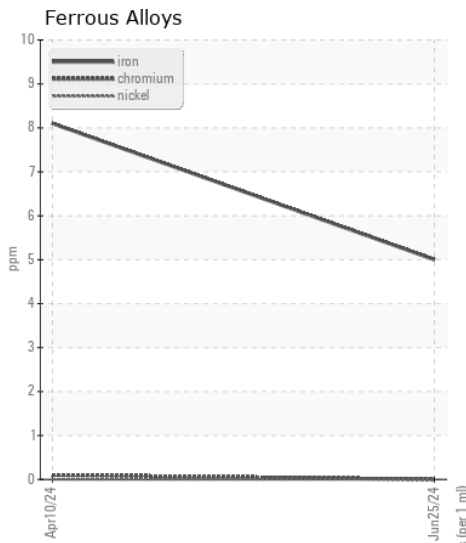
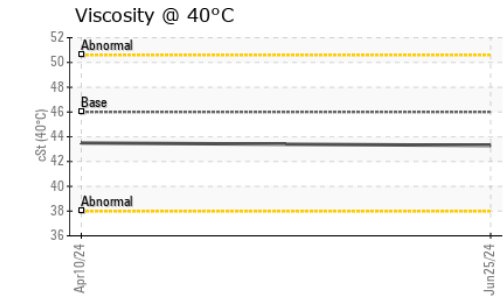
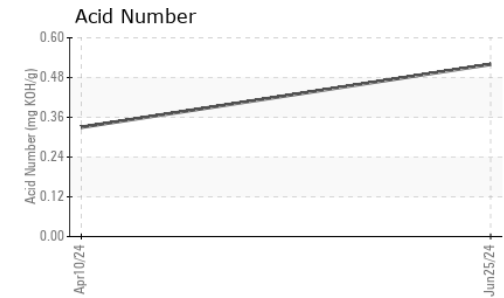
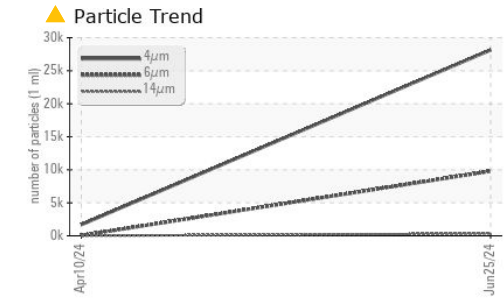
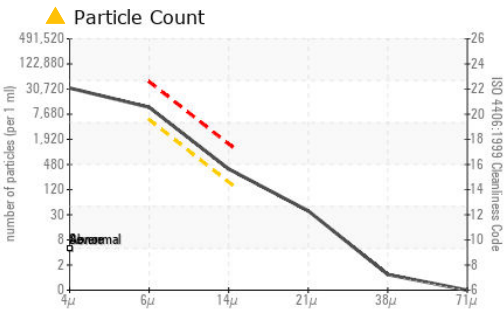
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647		<b>28151</b>	1684	---
Particles >6µm		ASTM D7647	>5000	<b>▲ 9795</b>	45	---
Particles >14µm		ASTM D7647	>160	<b>▲ 330</b>	5	---
Particles >21µm		ASTM D7647	>40	<b>33</b>	2	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>▲ 22/20/16</b>	18/13/10	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</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>	2	---
Boron	ppm	ASTM D5185m	14	<b>2</b>	<1	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	2.6	<b>3</b>	<1	---
Calcium	ppm	ASTM D5185m	49	<b>113</b>	108	---
Phosphorus	ppm	ASTM D5185m	354	<b>344</b>	304	---
Zinc	ppm	ASTM D5185m	419	<b>448</b>	348	---
Sulfur	ppm	ASTM D5185m	3719	<b>2289</b>	2260	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.52</b>	0.33	---
Visc @ 40°C	cSt	ASTM D445	46	<b>43.3</b>	43.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002480  
**Lab Number** : 06221801  
**Unique Number** : 11099998  
**Test Package** : CONST

**Received** : 26 Jun 2024  
**Tested** : 28 Jun 2024  
**Diagnosed** : 28 Jun 2024 - Don Baldrige

**WILLIAM HAZEL**  
 PO BOX 600  
 CHANTILLY, VA  
 US 20153

Contact: SERVICE MANAGER  
 jimmy\_elswick@wahazel.com

T: (703)378-8300

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)

F: