



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[661347 BCSW]**  
Machine Id  
**VOLVO A40G 352381**  
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>VCP439118</b>	VCP399697	VCP376909
Sample Date		Client Info		<b>07 Feb 2024</b>	02 Mar 2023	15 Sep 2022
Machine Age	hrs	Client Info		<b>7523</b>	5782	4951
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>9</b>	5	3
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>20	<b>4</b>	1	2
Copper	ppm	ASTM D5185m	>150	<b>4</b>	2	1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

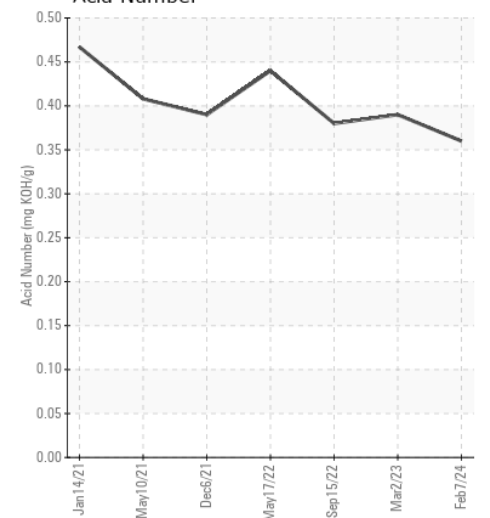
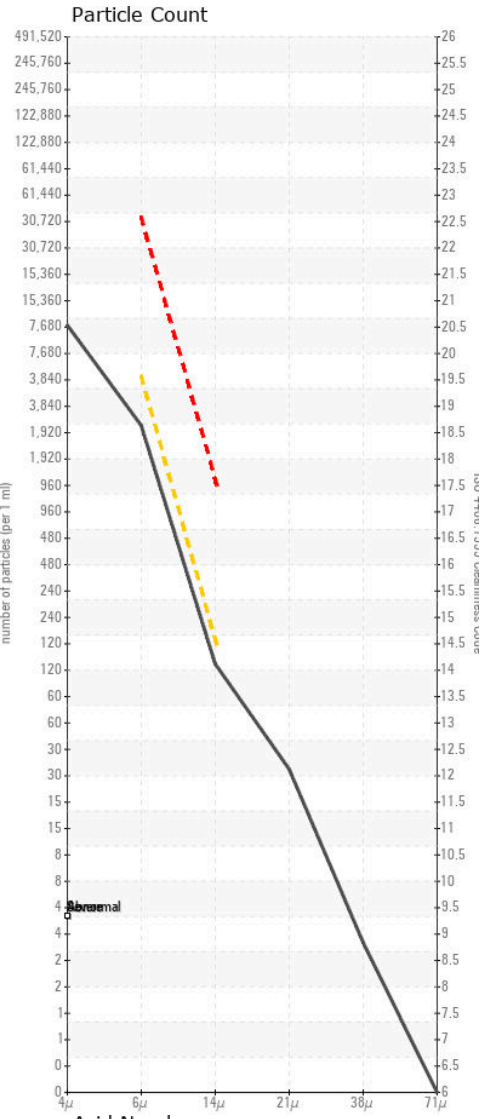
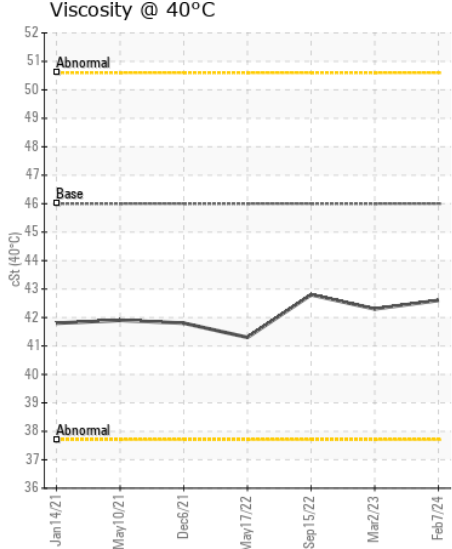
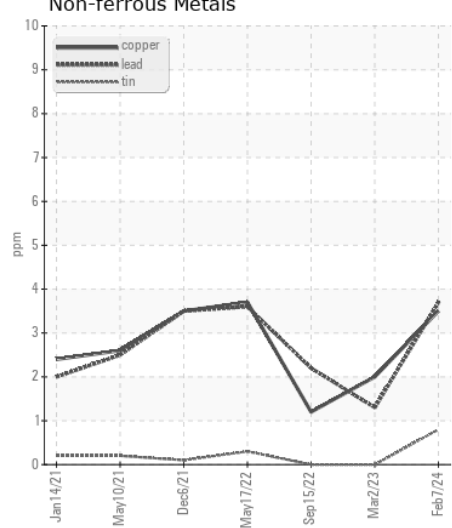
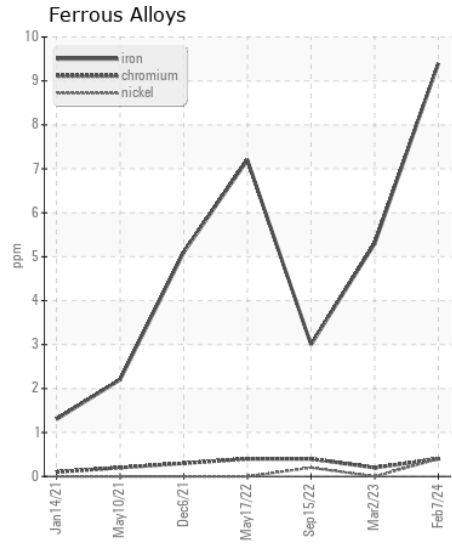
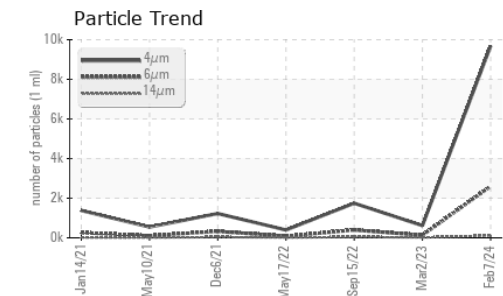
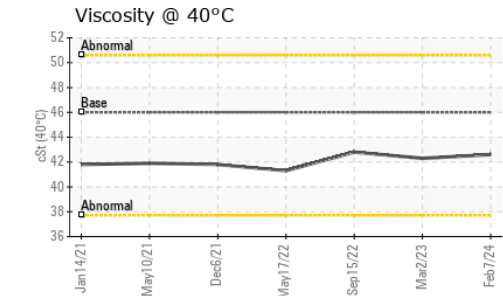
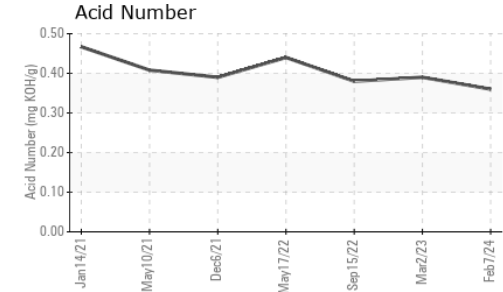
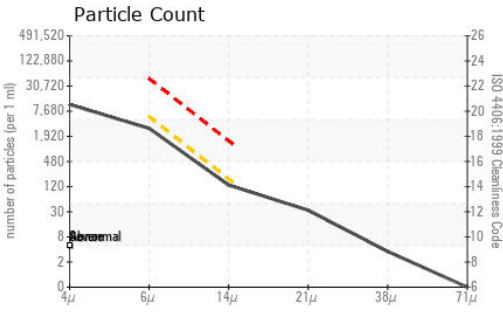
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>9683</b>	617	1746
Particles >6µm		ASTM D7647	>5000	<b>2602</b>	130	397
Particles >14µm		ASTM D7647	>160	<b>115</b>	15	40
Particles >21µm		ASTM D7647	>40	<b>29</b>	6	11
Particles >38µm		ASTM D7647	>10	<b>3</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>20/19/14</b>	16/14/11	18/16/12
Silt	scalar	*Visual	NONE	<b>NONE</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	>0.1	<b>NEG</b>	NEG	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>0</b>	2	1
Boron	ppm	ASTM D5185m	14	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	0.0	<b>13</b>	0	2
Molybdenum	ppm	ASTM D5185m	0.0	<b>2</b>	1	1
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	2.6	<b>8</b>	6	7
Calcium	ppm	ASTM D5185m	49	<b>80</b>	68	70
Phosphorus	ppm	ASTM D5185m	354	<b>365</b>	291	317
Zinc	ppm	ASTM D5185m	419	<b>412</b>	369	412
Sulfur	ppm	ASTM D5185m	3719	<b>1541</b>	1420	1574
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.36</b>	0.39	0.38
Visc @ 40°C	cSt	ASTM D445	46	<b>42.6</b>	42.3	42.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP439118 **Received** : 12 Feb 2024  
**Lab Number** : 06086013 **Tested** : 13 Feb 2024  
**Unique Number** : 10873458 **Diagnosed** : 13 Feb 2024 - Wes Davis  
**Test Package** : MOB 2

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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Certificate L2367  
 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)