



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A40G 352449**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. 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>VCP449684</b>	VCP455454	VCP335488
Sample Date		Client Info		<b>18 Jun 2024</b>	02 May 2024	25 Oct 2023
Machine Age	hrs	Client Info		<b>8146</b>	8038	7451
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 Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>27</b>	15	8
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	2	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>50	<b>7</b>	7	4
Lead	ppm	ASTM D5185m	>50	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>225	<b>15</b>	12	12
Tin	ppm	ASTM D5185m	>10	<b>2</b>	4	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

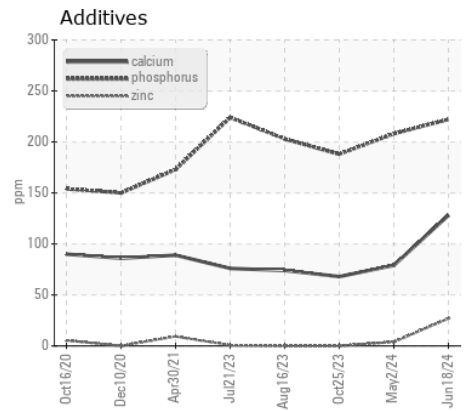
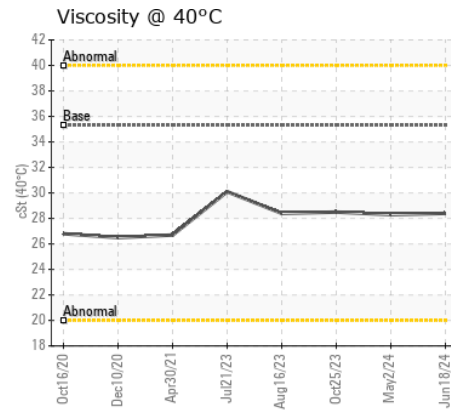
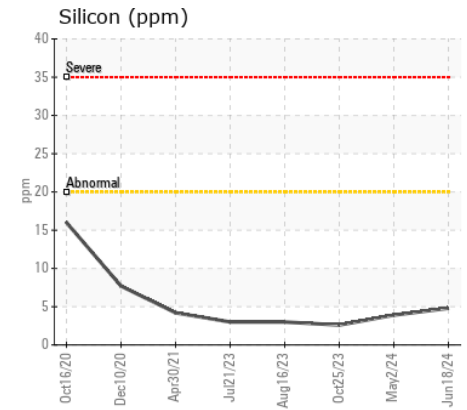
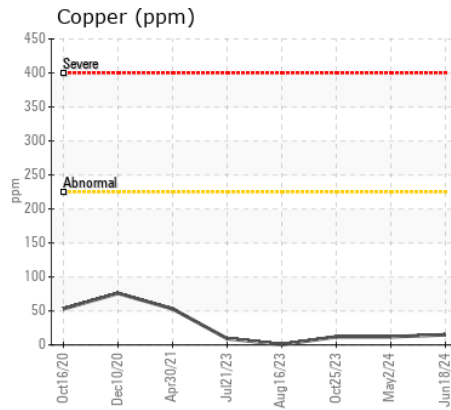
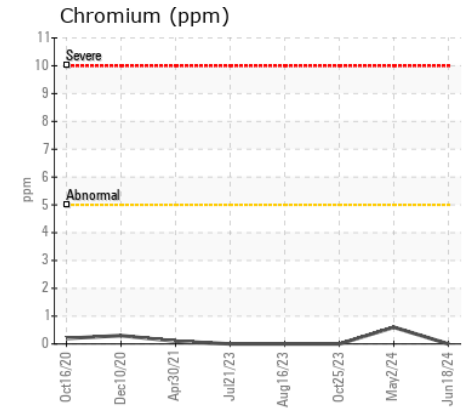
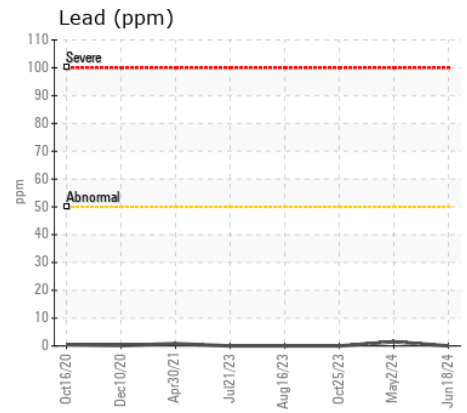
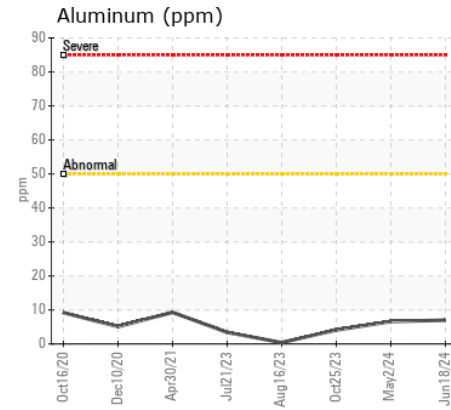
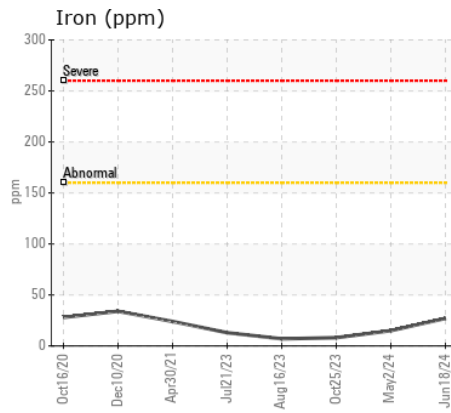
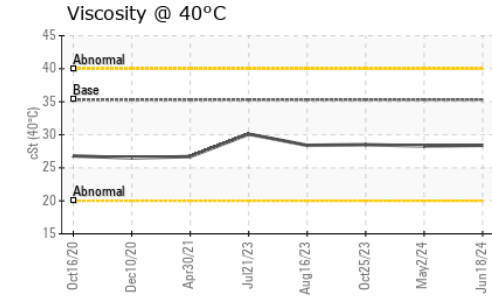
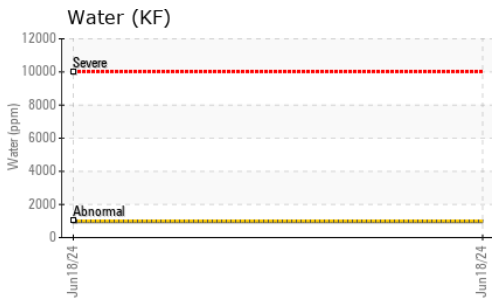
There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water	%	ASTM D6304	>0.1	<b>0.097</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>970</b>	---	---
Silt	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</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>0.2%</b>	NEG	NEG

### FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	4	3
Boron	ppm	ASTM D5185m	187	<b>82</b>	85	95
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m	0.0	<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m	6.8	<b>2</b>	0	12
Calcium	ppm	ASTM D5185m	215	<b>128</b>	79	68
Phosphorus	ppm	ASTM D5185m	445	<b>222</b>	208	188
Zinc	ppm	ASTM D5185m	56	<b>27</b>	4	0
Sulfur	ppm	ASTM D5185m	1336	<b>2208</b>	2357	1878
Visc @ 40°C	cSt	ASTM D445	35.3	<b>28.4</b>	28.3	28.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : VCP449684

**Lab Number** : 06221741

**Unique Number** : 11099938

**Test Package** : MOB 1 ( Additional Tests: KF )

**Received** : 26 Jun 2024

**Tested** : 27 Jun 2024

**Diagnosed** : 28 Jun 2024 - Don Baldrige

**ALTA EQUIPMENT COMPANY**

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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)