



# VOLVO

## OIL ANALYSIS REPORT

WEAR

**ABNORMAL**

CONTAMINATION

**NORMAL**

FLUID CONDITION

**NORMAL**



Area

**[687121 APTIM]**

Machine Id

**VOLVO A35G 340236**

Component

**Brake Cooling System**

Fluid

**VOLVO WB 102 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP444156</b>	VCP444135	VCP424416
Sample Date		Client Info		<b>12 Mar 2024</b>	26 Feb 2024	25 May 2023
Machine Age	hrs	Client Info		<b>8945</b>	7992	6888
Oil Age	hrs	Client Info		<b>3500</b>	3000	4000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

The copper level is abnormal. The iron level is abnormal.

Iron	ppm	ASTM D5185m	>50	<b>▲ 56</b>	30	32
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	4	6
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>1</b>	2	0
Lead	ppm	ASTM D5185m	>50	<b>6</b>	1	1
Copper	ppm	ASTM D5185m	>200	<b>▲ 352</b>	<b>▲ 270</b>	<b>▲ 478</b>
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

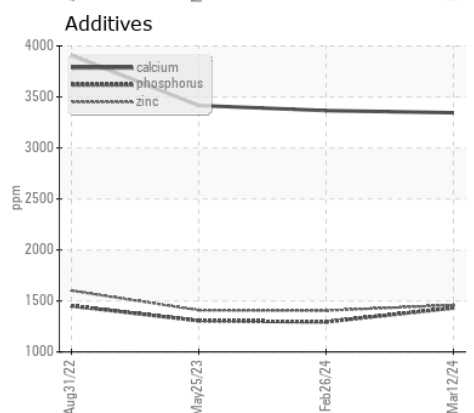
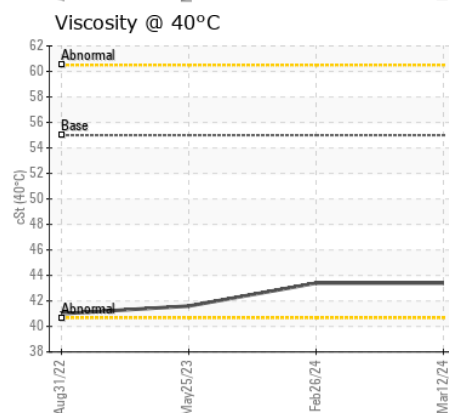
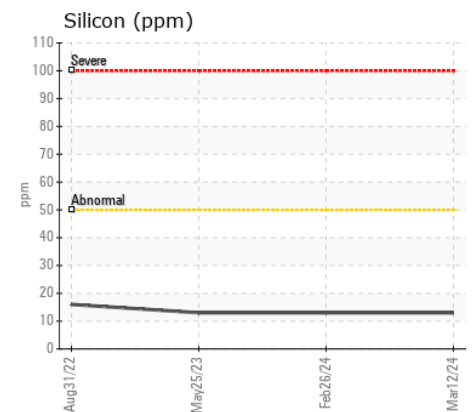
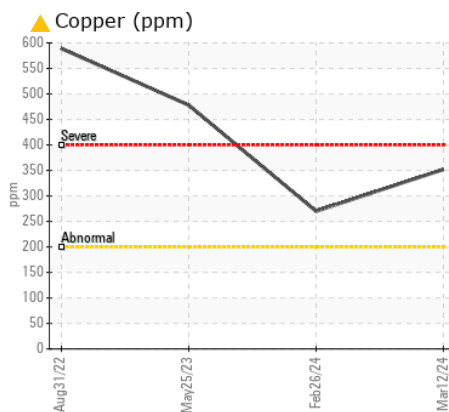
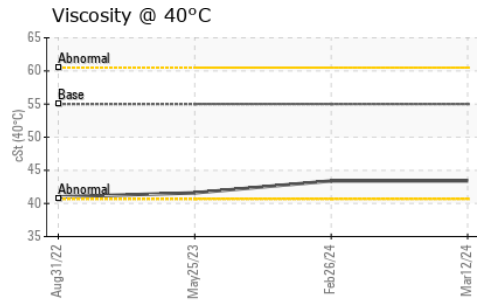
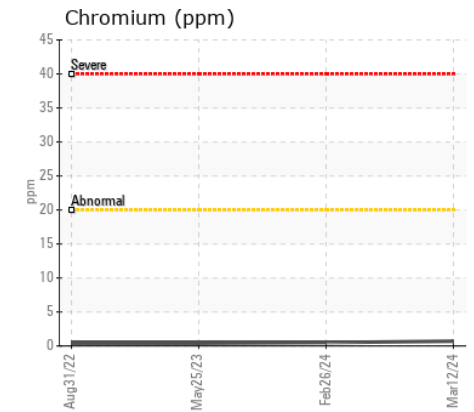
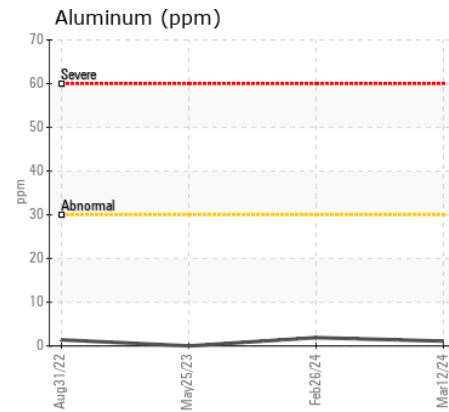
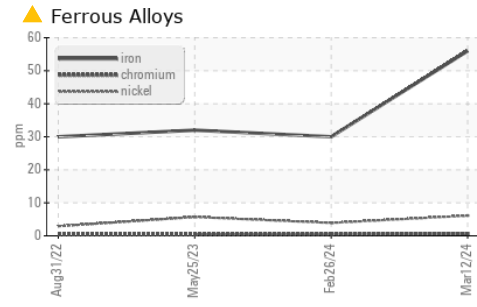
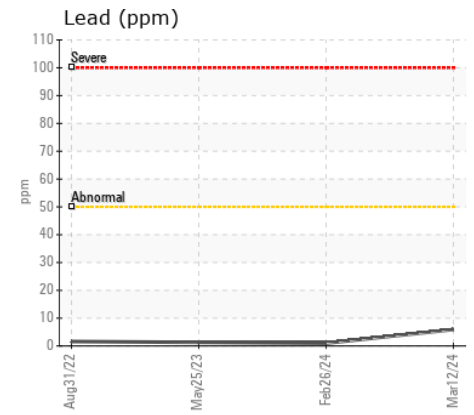
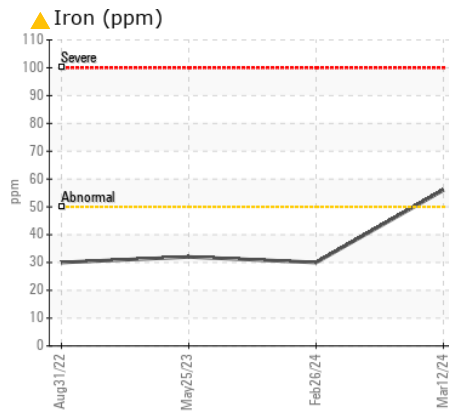
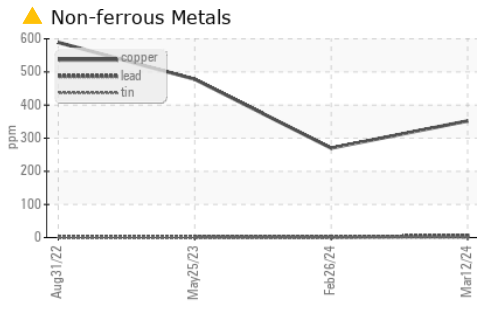
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	<b>13</b>	13	13
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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	>0.2	<b>NEG</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	0
Boron	ppm	ASTM D5185m		<b>121</b>	107	112
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>24</b>	11	5
Calcium	ppm	ASTM D5185m		<b>3345</b>	3366	3416
Phosphorus	ppm	ASTM D5185m		<b>1431</b>	1294	1306
Zinc	ppm	ASTM D5185m		<b>1460</b>	1405	1409
Sulfur	ppm	ASTM D5185m		<b>8255</b>	5859	6813
Visc @ 40°C	cSt	ASTM D445	55	<b>43.4</b>	43.4	41.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP444156  
**Lab Number** : 06146242  
**Unique Number** : 10976320  
**Test Package** : MOB 1  
**Received** : 11 Apr 2024  
**Tested** : 12 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Don Baldrige

**ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC**  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: JOHN FARDELLA  
 john.fardella@altg.com  
 T: (813)630-0077  
 F: (813)630-2233

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)