



# VOLVO

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**



Machine Id  
**VOLVO A45G FS 352634**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AT 102 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### FLUID CONDITION

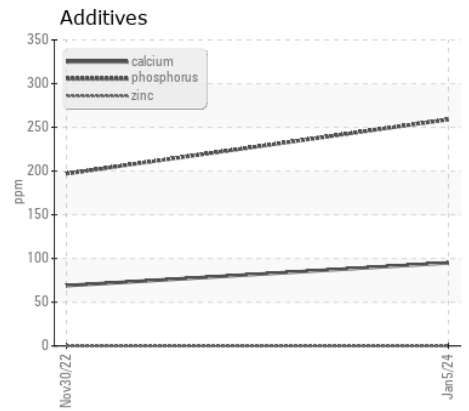
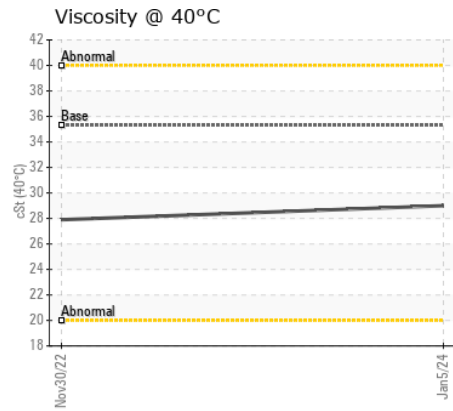
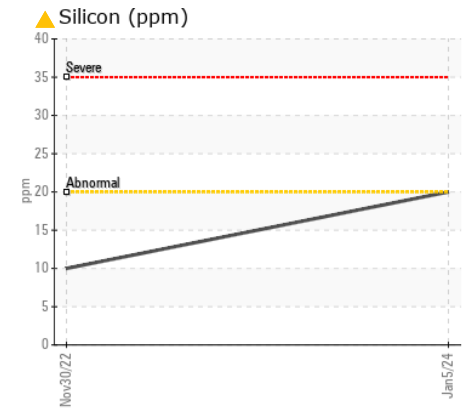
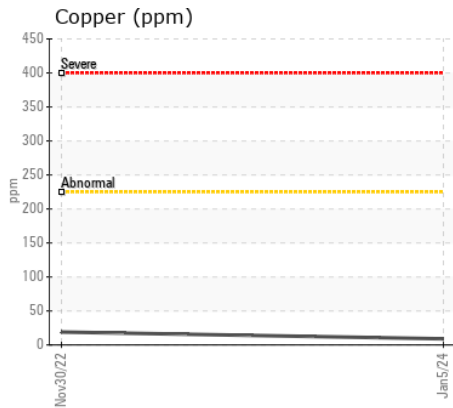
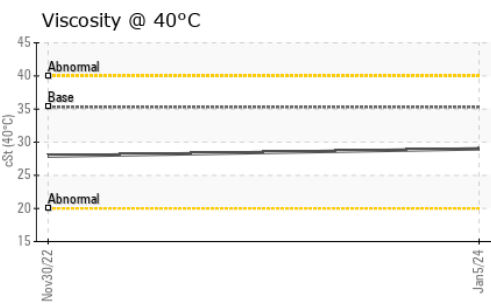
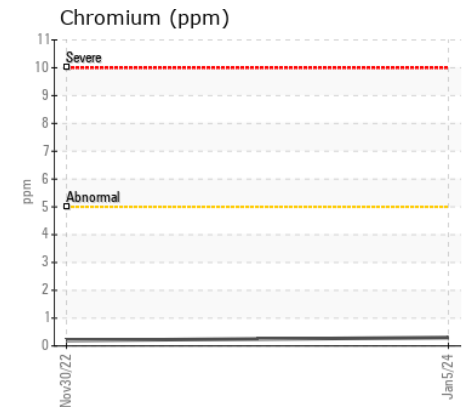
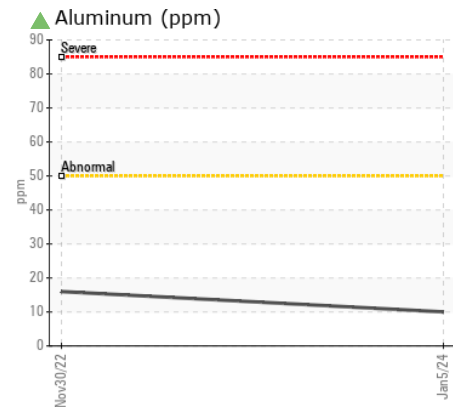
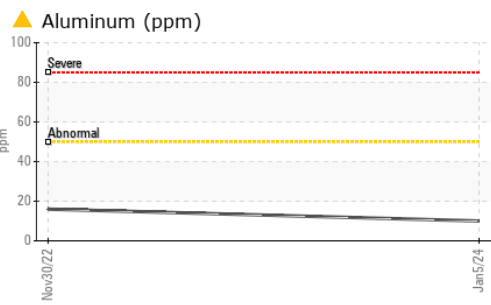
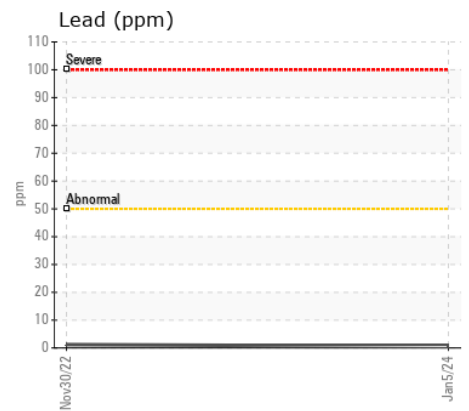
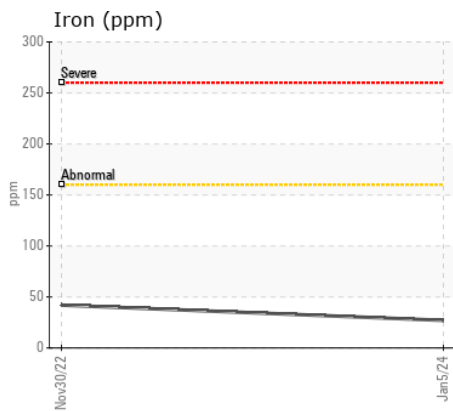
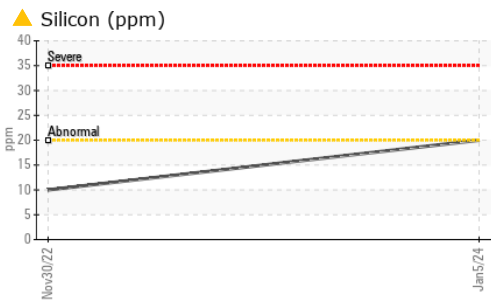
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP436117</b>	VCP371380	---
Sample Date		Client Info		<b>05 Jan 2024</b>	30 Nov 2022	---
Machine Age	hrs	Client Info		<b>2399</b>	1764	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

Iron	ppm	ASTM D5185m	>160	<b>27</b>	42	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	3	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>50	<b>▲ 10</b>	16	---
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185m	>225	<b>9</b>	19	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	4	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

Silicon	ppm	ASTM D5185m	>20	<b>▲ 20</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	3	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
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	---

Sodium	ppm	ASTM D5185m		<b>3</b>	4	---
Boron	ppm	ASTM D5185m	187	<b>93</b>	79	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>1</b>	<1	---
Manganese	ppm	ASTM D5185m	0.0	<b>2</b>	2	---
Magnesium	ppm	ASTM D5185m	6.8	<b>3</b>	2	---
Calcium	ppm	ASTM D5185m	215	<b>95</b>	69	---
Phosphorus	ppm	ASTM D5185m	445	<b>259</b>	197	---
Zinc	ppm	ASTM D5185m	56	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m	1336	<b>2683</b>	1975	---
Visc @ 40°C	cSt	ASTM D445	35.3	<b>29.0</b>	27.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP436117 **Received** : 08 Jan 2024  
**Lab Number** : 06054449 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820398 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302

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)