



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SWO-068628]**  
Machine Id  
**VOLVO A45G 353092**  
Component  
**Rear Axle**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP443290</b>	VCP428972	VCP407516
Sample Date		Client Info		<b>03 Jan 2024</b>	19 Sep 2023	09 Jun 2023
Machine Age	hrs	Client Info		<b>2545</b>	2012	1497
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>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>169</b>	134	228
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	4
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>150	<b>2</b>	2	1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

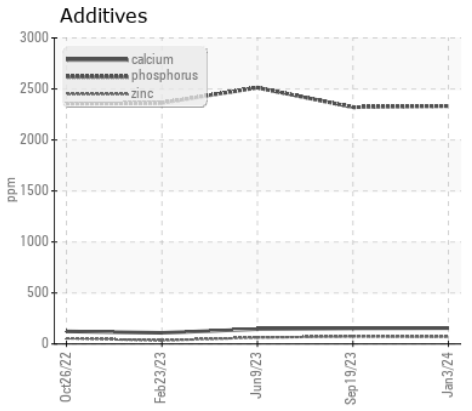
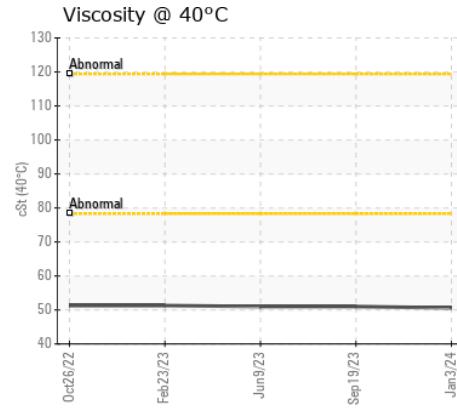
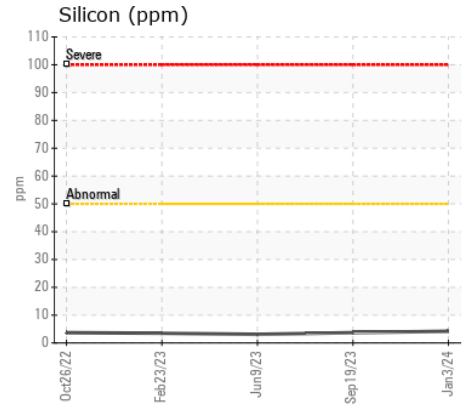
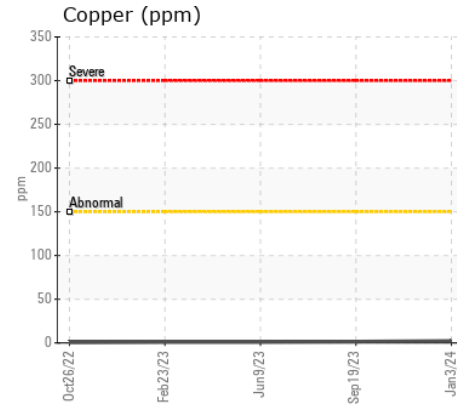
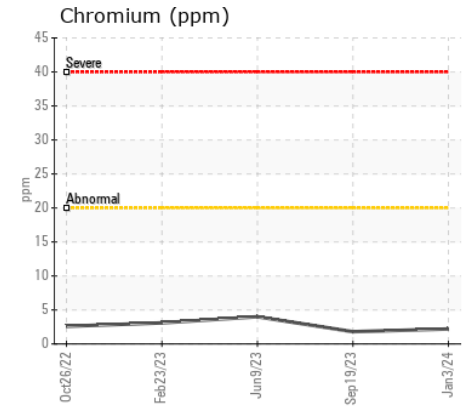
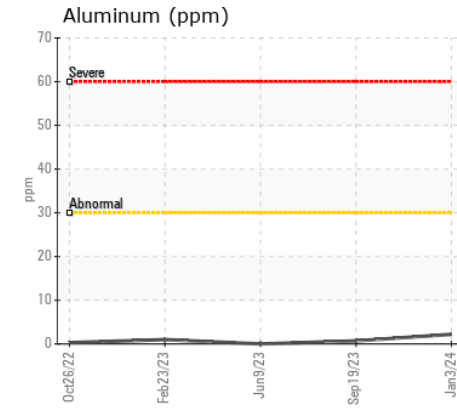
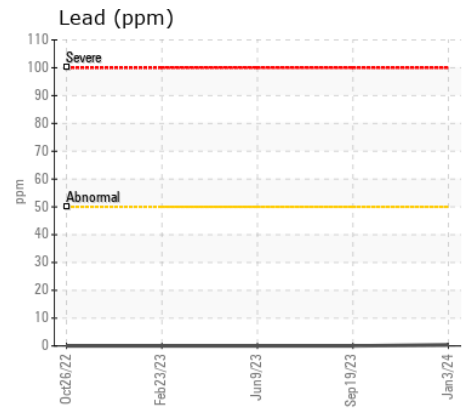
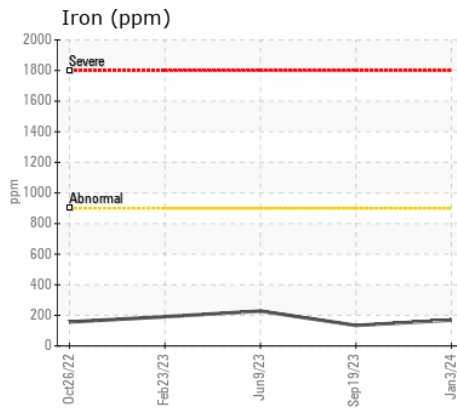
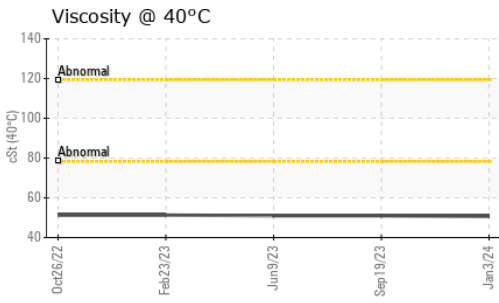
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	5	5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	MODER
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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Boron	ppm	ASTM D5185m		<b>268</b>	259	282
Barium	ppm	ASTM D5185m		<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>9</b>	7	11
Manganese	ppm	ASTM D5185m		<b>7</b>	6	8
Magnesium	ppm	ASTM D5185m		<b>1</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>155</b>	153	145
Phosphorus	ppm	ASTM D5185m		<b>2331</b>	2321	2512
Zinc	ppm	ASTM D5185m		<b>70</b>	73	63
Sulfur	ppm	ASTM D5185m		<b>28799</b>	28879	32521
Visc @ 40°C	cSt	ASTM D445		<b>50.6</b>	51.0	51.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP443290 **Received** : 08 Jan 2024  
**Lab Number** : 06054348 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820297 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1

**SAIIA CONSTRUCTION LLC**  
 4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207

Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269

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)