



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SWO-071952]**  
 Machine Id  
**VOLVO A45G 352969**  
 Component  
**Bogie/Center Axle**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

The oil 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>VCP439685</b>	VCP446721	VCP414805
Sample Date		Client Info		<b>23 May 2024</b>	27 Feb 2024	20 Dec 2023
Machine Age	hrs	Client Info		<b>3944</b>	3453	2980
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>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changed</b>	N/A	Not Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>209</b>	220	189
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>0</b>	0	2
Lead	ppm	ASTM D5185m	>50	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>150	<b>3</b>	2	0
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

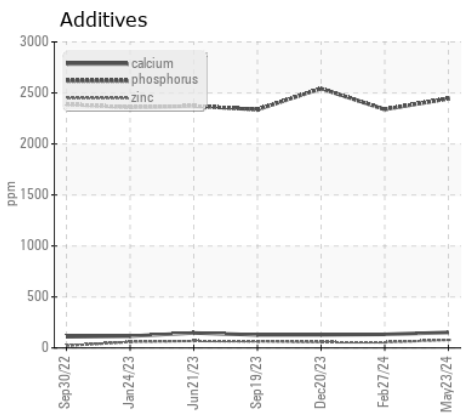
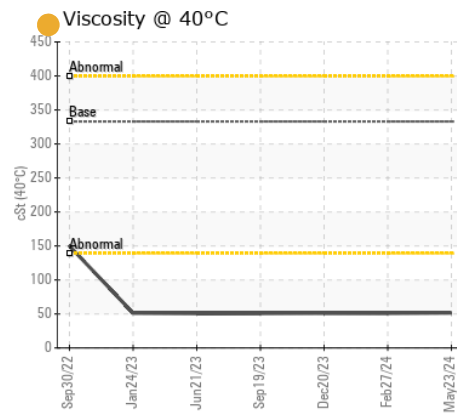
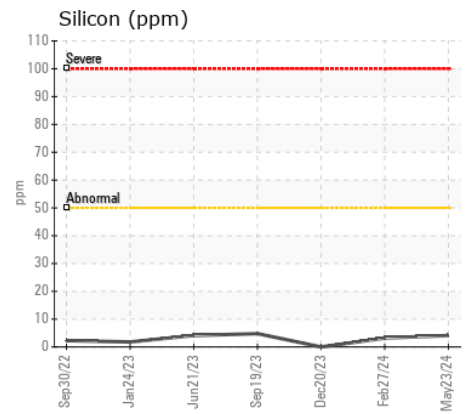
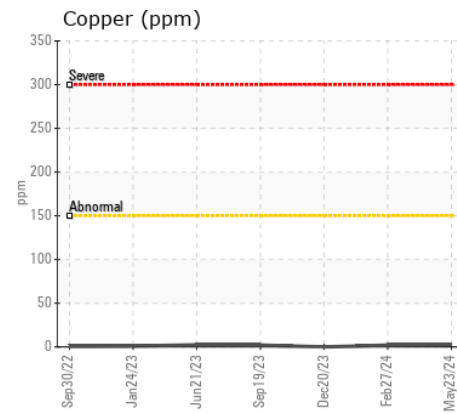
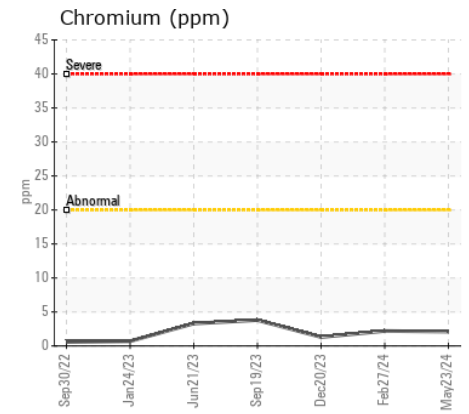
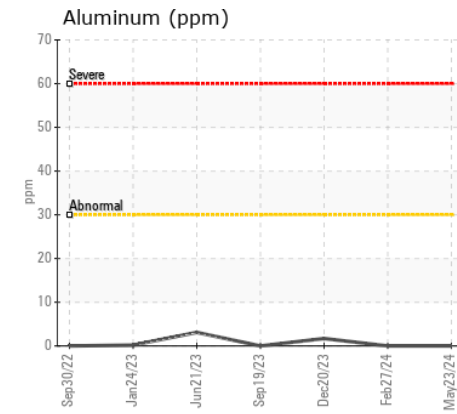
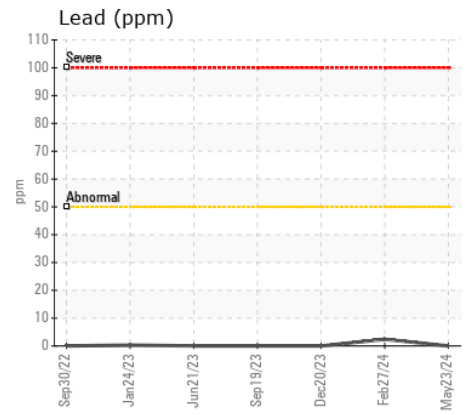
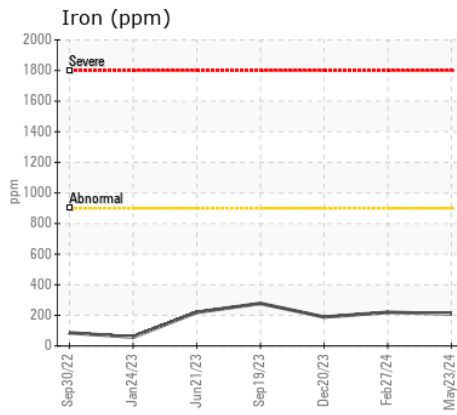
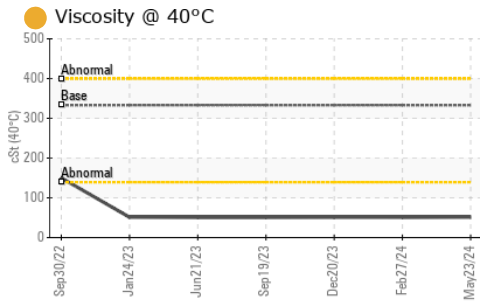
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	3	0
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>3</b>	3	0
Boron	ppm	ASTM D5185m	111	<b>183</b>	208	245
Barium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	4
Molybdenum	ppm	ASTM D5185m	0.9	<b>9</b>	10	3
Manganese	ppm	ASTM D5185m	0.0	<b>8</b>	9	3
Magnesium	ppm	ASTM D5185m	39	<b>&lt;1</b>	1	0
Calcium	ppm	ASTM D5185m	93	<b>152</b>	133	129
Phosphorus	ppm	ASTM D5185m	920	<b>2444</b>	2338	2543
Zinc	ppm	ASTM D5185m	104	<b>78</b>	55	56
Sulfur	ppm	ASTM D5185m	20179	<b>32410</b>	26411	33520
Visc @ 40°C	cSt	ASTM D445	333	<b>51.5</b>	50.8	50.9



Certificate L2367

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

**Sample No.** : VCP439685

**Lab Number** : 06195784

**Unique Number** : 11057907

**Test Package** : MOB 1

**Received** : 30 May 2024

**Tested** : 31 May 2024

**Diagnosed** : 01 Jun 2024 - Don Baldrige

**SAIIA CONSTRUCTION LLC**

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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)