



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SPM688079 US STEEL]**  
 Machine Id  
**VOLVO A25G 752203**  
 Component  
**Front Axle**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP427317</b>	VCP417506	VCP346295
Sample Date		Client Info		<b>19 Mar 2024</b>	01 Aug 2023	29 Mar 2022
Machine Age	hrs	Client Info		<b>9546</b>	4671	3706
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>	Changed	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>193</b>	302	337
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	6	5
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	3
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	8
Aluminum	ppm	ASTM D5185m	>30	<b>0</b>	3	3
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>150	<b>6</b>	35	57
Tin	ppm	ASTM D5185m	>20	<b>0</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

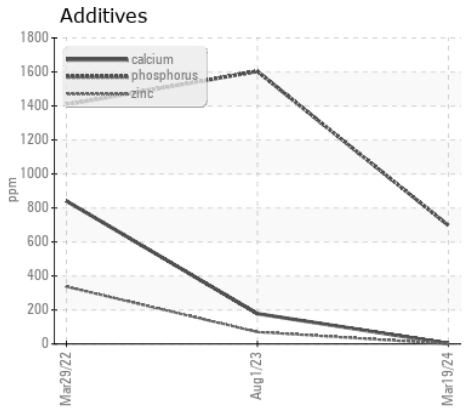
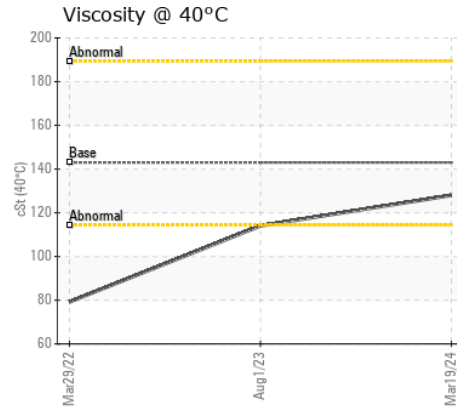
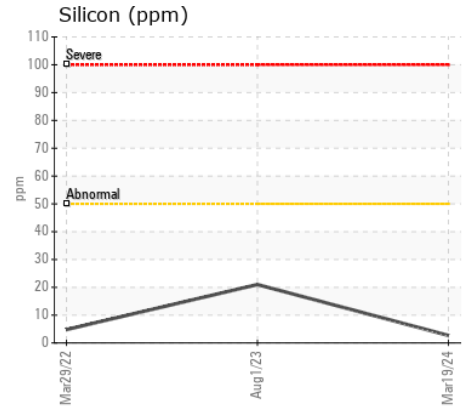
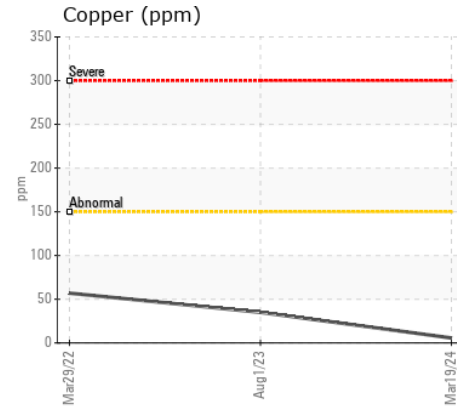
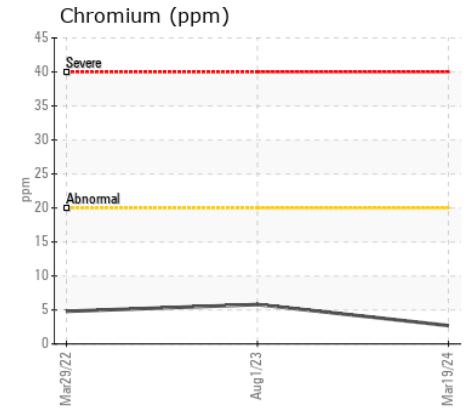
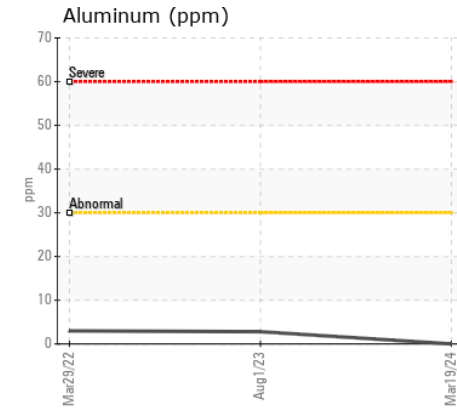
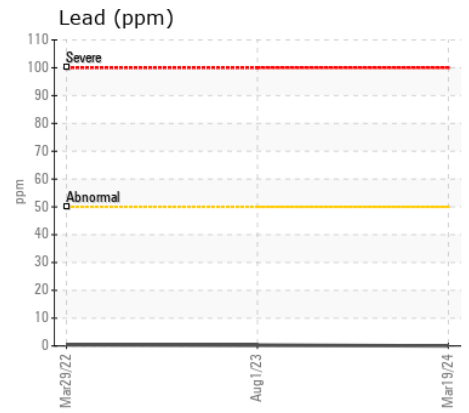
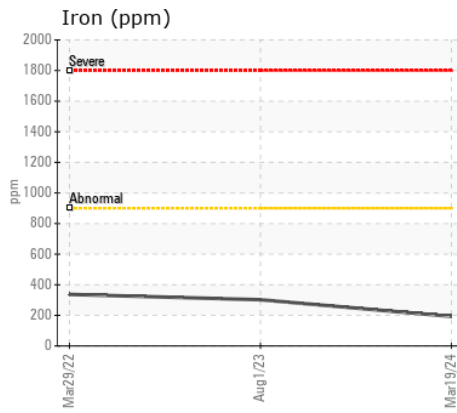
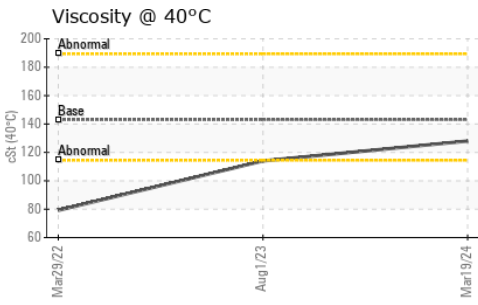
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	21	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	7	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	<b>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185m	400	<b>60</b>	261	183
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	4	5
Manganese	ppm	ASTM D5185m		<b>3</b>	8	13
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	8	10
Calcium	ppm	ASTM D5185m	150	<b>3</b>	178	841
Phosphorus	ppm	ASTM D5185m	1650	<b>697</b>	1603	1408
Zinc	ppm	ASTM D5185m	125	<b>0</b>	70	337
Sulfur	ppm	ASTM D5185m	22500	<b>21732</b>	25056	17105
Visc @ 40°C	cSt	ASTM D445	143	<b>128</b>	114	79.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP427317  
**Lab Number** : 06154875  
**Unique Number** : 10990298  
**Test Package** : MOB 1

**Received** : 19 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Sean Felton

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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)