



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SPM716242 RENTAL]**  
 Machine Id  
**VOLVO A45G 352584**  
 Component  
**Bogie/Center Axle**  
 Fluid  
**GEAR OIL SAE 80W90 (--- 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>VCP452717</b>	VCP339424	VCP345358
Sample Date		Client Info		<b>16 May 2024</b>	28 Jan 2022	08 Nov 2021
Machine Age	hrs	Client Info		<b>7880</b>	1998	1513
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	Not Chngd
Filter Changed		Client Info		<b>Not Changed</b>	Not Chngd	Not Chngd
Sample Status				<b>ATTENTION</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>125</b>	194	251
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>150	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
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

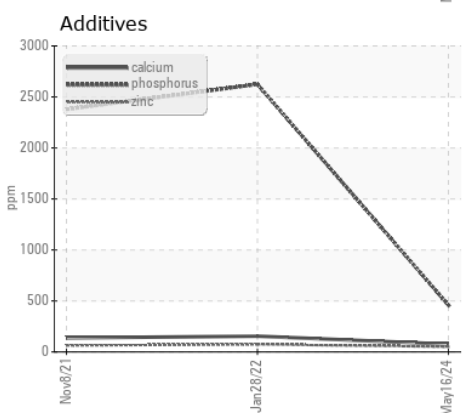
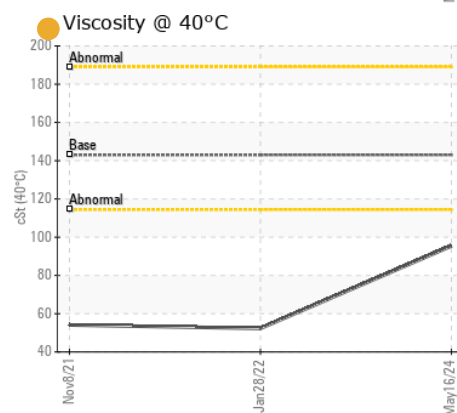
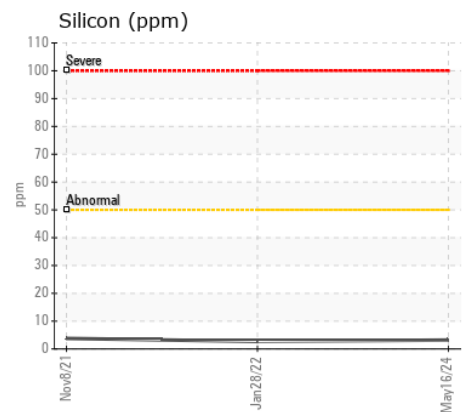
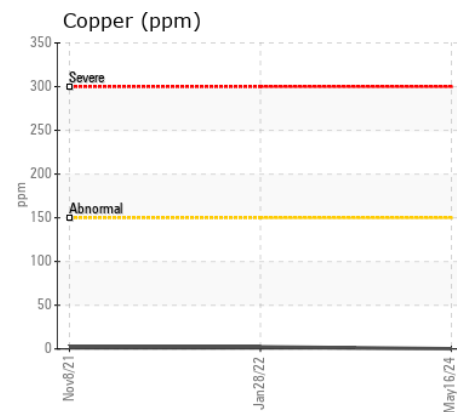
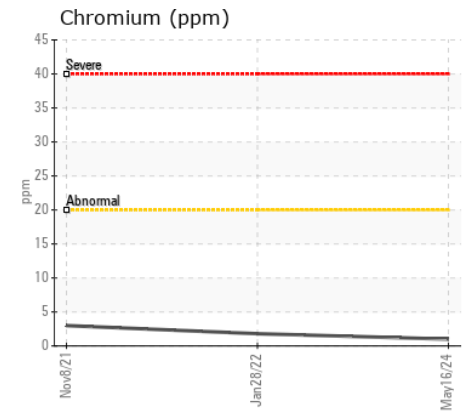
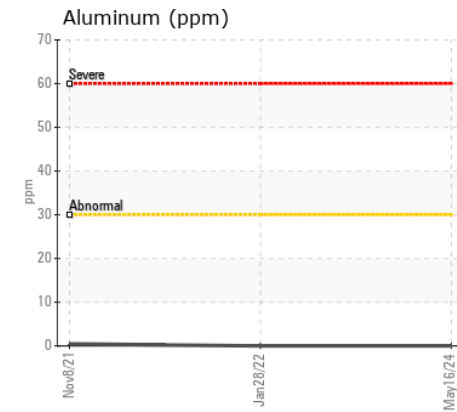
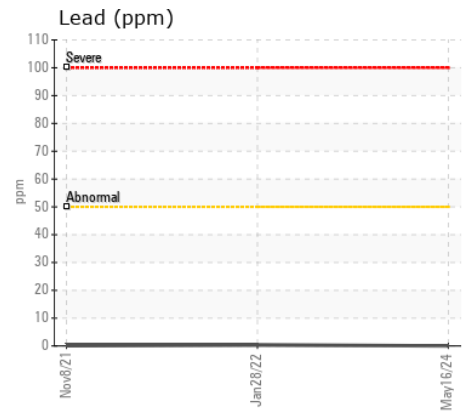
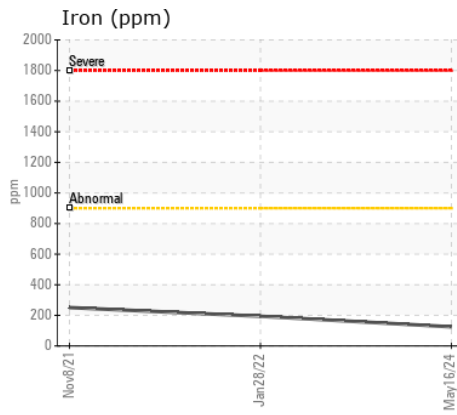
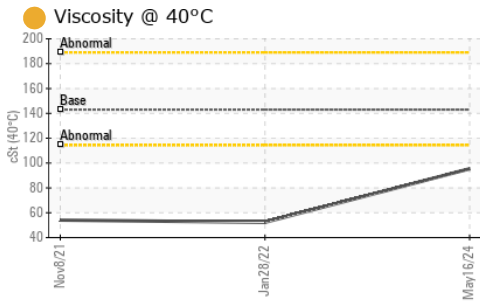
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	MODER	▲ VHEVY
Debris	scalar	*Visual	NONE	<b>NONE</b>	MODER	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. Confirm oil type.

Sodium	ppm	ASTM D5185m	>170	<b>1</b>	<1	3
Boron	ppm	ASTM D5185m	400	<b>5</b>	228	249
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	5	10
Manganese	ppm	ASTM D5185m		<b>2</b>	8	11
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	3	2
Calcium	ppm	ASTM D5185m	150	<b>76</b>	155	138
Phosphorus	ppm	ASTM D5185m	1650	<b>460</b>	2624	2378
Zinc	ppm	ASTM D5185m	125	<b>50</b>	74	63
Sulfur	ppm	ASTM D5185m	22500	<b>20247</b>	24835	22998
Visc @ 40°C	cSt	ASTM D445	143	<b>95.4</b>	52.3	54.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP452717  
**Lab Number** : 06195753  
**Unique Number** : 11057876  
**Test Package** : MOB 1

**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 01 Jun 2024 - Don Baldrige

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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)