



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[RS0036629]**  
Machine Id  
**VOLVO A30G 752053**  
Component  
**Front Axle**  
Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP415152</b>	VCP346899	---
Sample Date		Client Info		<b>09 Jan 2024</b>	31 Jan 2022	---
Machine Age	hrs	Client Info		<b>4956</b>	2189	---
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>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>208</b>	334	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	7	---
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	3	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	1	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>150	<b>10</b>	24	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

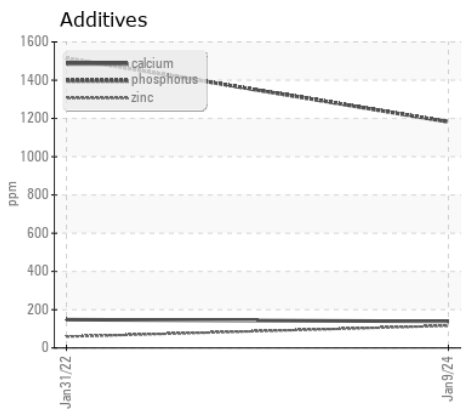
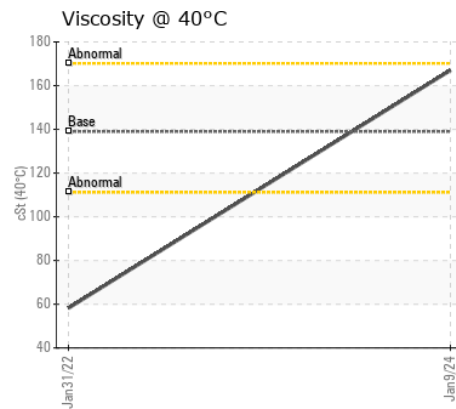
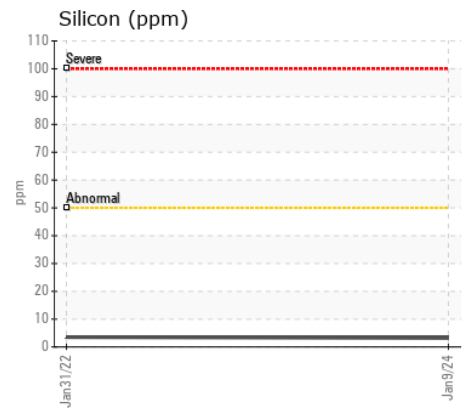
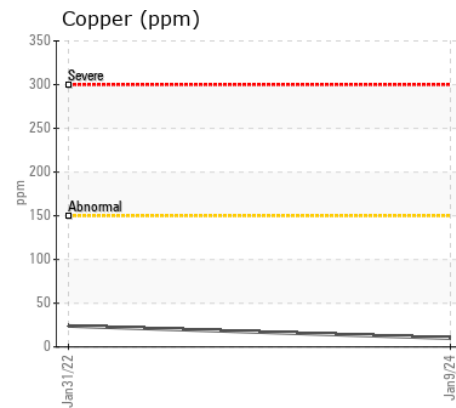
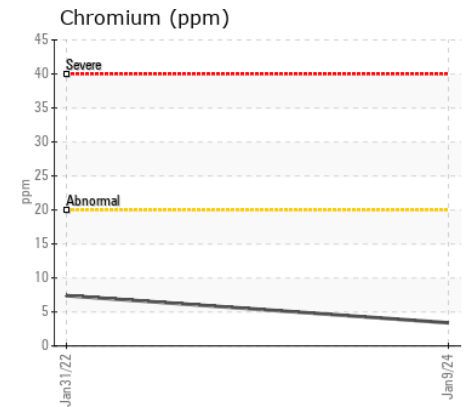
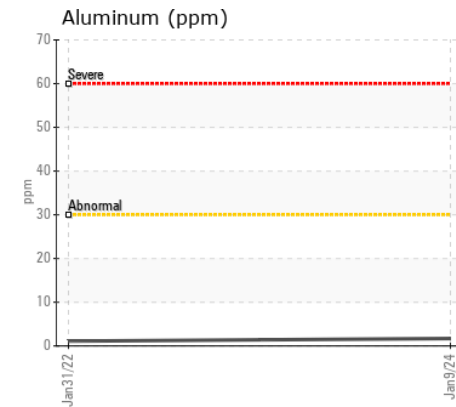
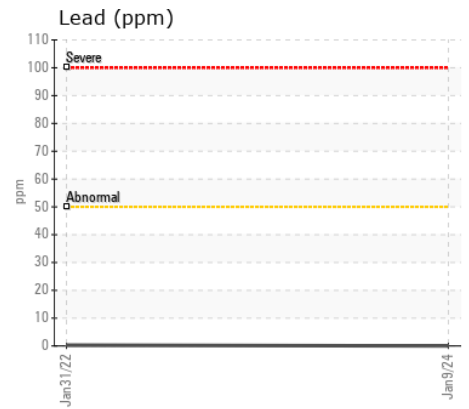
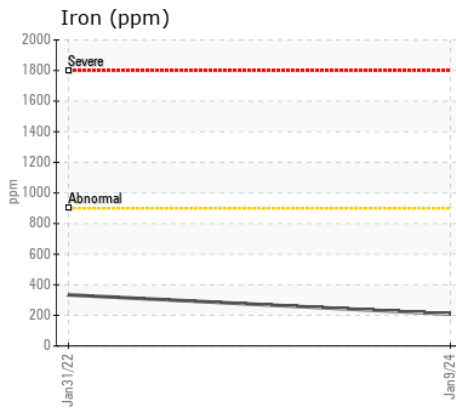
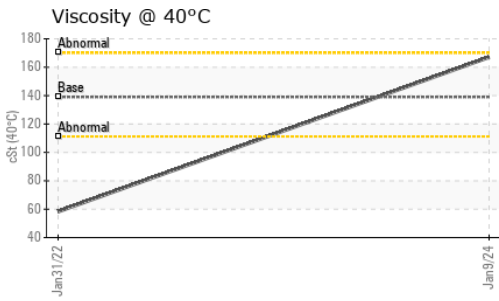
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</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	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	4	---
Boron	ppm	ASTM D5185m	379	<b>167</b>	200	---
Barium	ppm	ASTM D5185m	0.0	<b>4</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.8	<b>6</b>	9	---
Manganese	ppm	ASTM D5185m	0.0	<b>8</b>	25	---
Magnesium	ppm	ASTM D5185m	31	<b>11</b>	0	---
Calcium	ppm	ASTM D5185m	38	<b>139</b>	148	---
Phosphorus	ppm	ASTM D5185m	1077	<b>1182</b>	1515	---
Zinc	ppm	ASTM D5185m	46	<b>116</b>	59	---
Sulfur	ppm	ASTM D5185m	23526	<b>24206</b>	22275	---
Visc @ 40°C	cSt	ASTM D445	139	<b>167</b>	▲ 58.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP415152 **Received** : 17 Jan 2024  
**Lab Number** : 06063141 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834523 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**COWIN EQUIPMENT COMPANY**  
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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)