



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[RS0036629]**  
 Machine Id  
**VOLVO A30G 752053**  
 Component  
**Drop Box**  
 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>VCP430890</b>	VCP346900	---
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>	Not Changed	---
Sample Status				<b>ATTENTION</b>	ATTENTION	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>83</b>	59	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>27</b>	21	---
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>30	<b>11</b>	1	---
Tin	ppm	ASTM D5185m	>20	<b>1</b>	0	---
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.

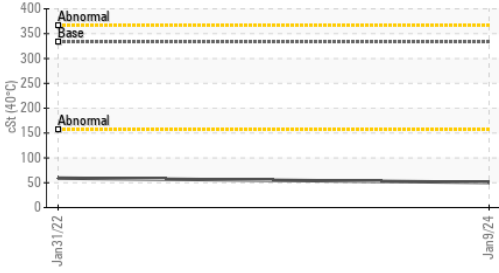
Silicon	ppm	ASTM D5185m	>50	<b>28</b>	45	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	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

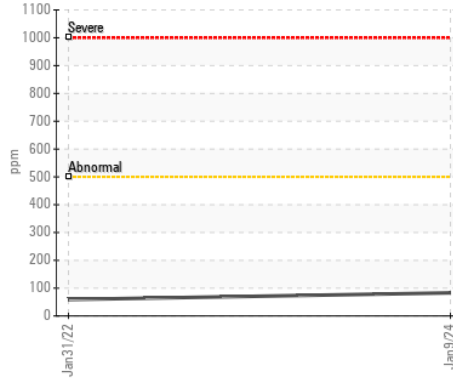
The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>0</b>	8	---
Boron	ppm	ASTM D5185m	111	<b>130</b>	201	---
Barium	ppm	ASTM D5185m	0.0	<b>3</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.9	<b>8</b>	13	---
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	39	<b>5</b>	0	---
Calcium	ppm	ASTM D5185m	93	<b>372</b>	63	---
Phosphorus	ppm	ASTM D5185m	920	<b>752</b>	1504	---
Zinc	ppm	ASTM D5185m	104	<b>433</b>	36	---
Sulfur	ppm	ASTM D5185m	20179	<b>8974</b>	22630	---
Visc @ 40°C	cSt	ASTM D445	333	<b>▲ 50.6</b>	▲ 59.3	---

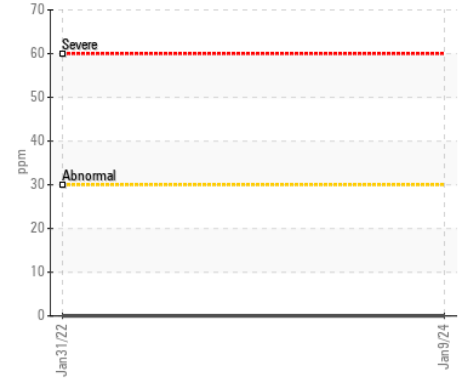
▲ Viscosity @ 40°C



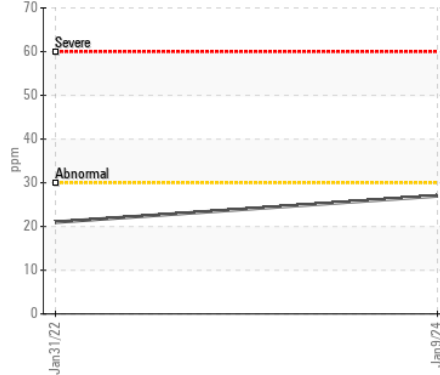
Iron (ppm)



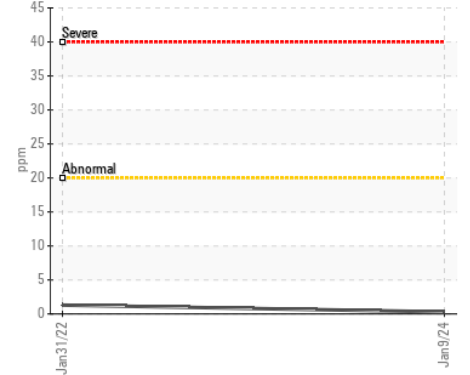
Lead (ppm)



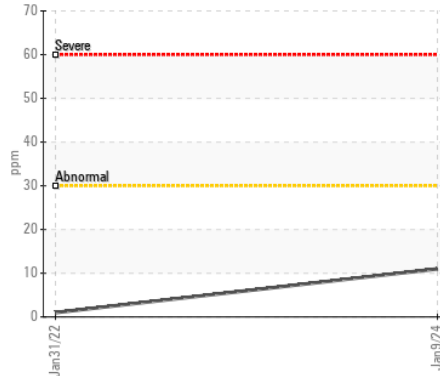
Aluminum (ppm)



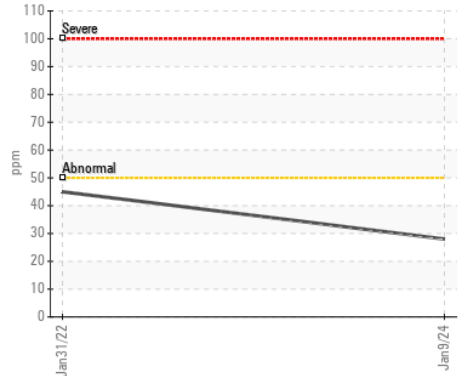
Chromium (ppm)



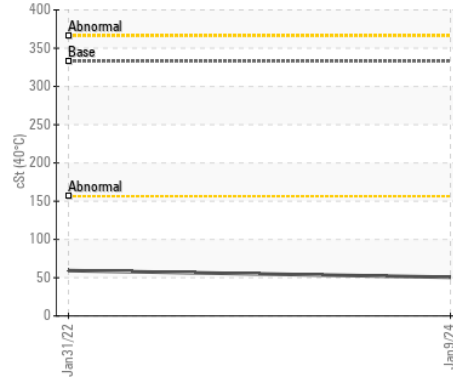
Copper (ppm)



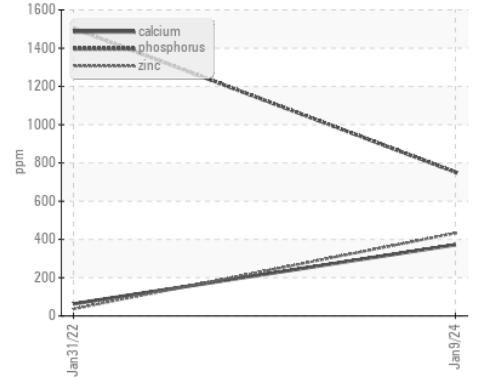
Silicon (ppm)



▲ Viscosity @ 40°C



Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP430890 **Received** : 17 Jan 2024  
**Lab Number** : 06063143 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834525 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**COWIN EQUIPMENT COMPANY**  
 7950 PITTMAN AVE  
 PENSACOLA, FL  
 US 32534  
 Contact: HUGH DOBBS  
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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)