



# VOLVO

## OIL ANALYSIS REPORT

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



Area

[42079]

Machine Id

**VOLVO A45G 352596**

Component

**Drop Box**

Fluid

**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Oil and filter 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>VCP453816</b>	VCP368305	---
Sample Date		Client Info		<b>08 May 2024</b>	03 May 2023	---
Machine Age	hrs	Client Info		<b>5998</b>	5272	---
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>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

### WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 772</b>	398	---
Chromium	ppm	ASTM D5185m	>20	<b>● 13</b>	5	---
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	3	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	<1	---
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>30	<b>7</b>	1	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

There is no indication of any contamination in the oil. There is no indication of any contamination in the oil.

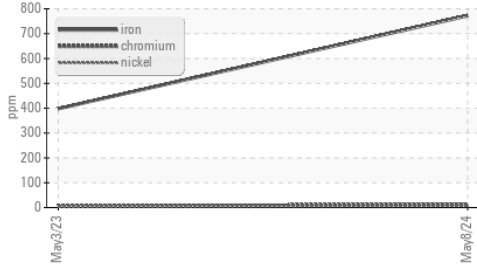
Silicon	ppm	ASTM D5185m	>50	<b>13</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	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

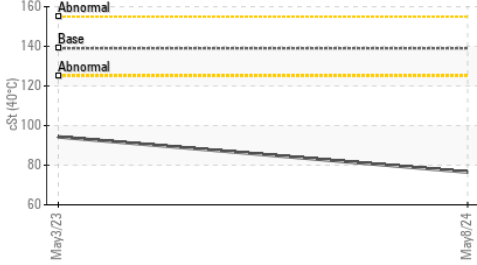
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>4</b>	<1	---
Boron	ppm	ASTM D5185m	379	<b>365</b>	244	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.8	<b>● 61</b>	4	---
Manganese	ppm	ASTM D5185m	0.0	<b>8</b>	5	---
Magnesium	ppm	ASTM D5185m	31	<b>● 222</b>	2	---
Calcium	ppm	ASTM D5185m	38	<b>● 920</b>	4	---
Phosphorus	ppm	ASTM D5185m	1077	<b>1282</b>	1469	---
Zinc	ppm	ASTM D5185m	46	<b>● 526</b>	9	---
Sulfur	ppm	ASTM D5185m	23526	<b>● 15398</b>	30897	---
Visc @ 40°C	cSt	ASTM D445	139	<b>● 76.5</b>	94.3	---

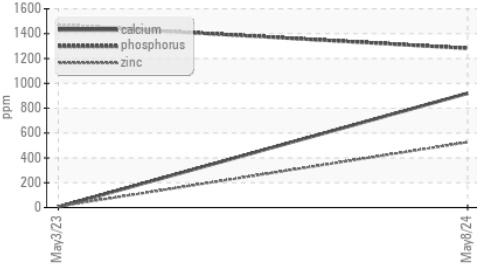
▲ Ferrous Alloys



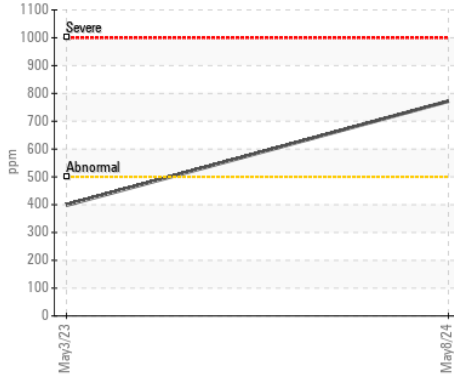
● Viscosity @ 40°C



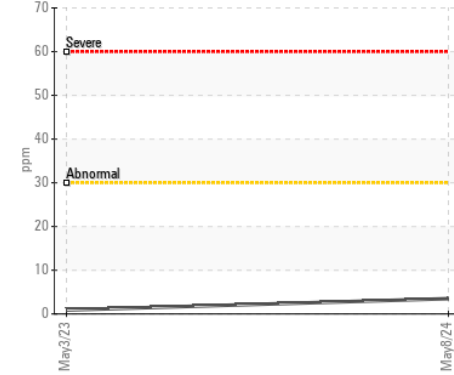
● Additives



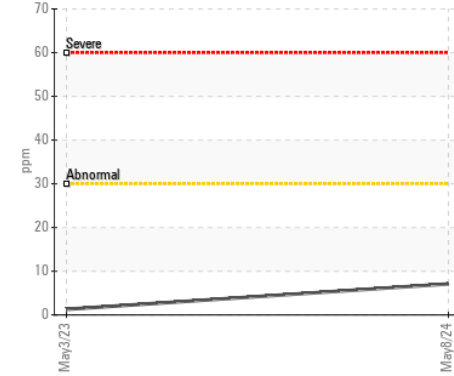
▲ Iron (ppm)



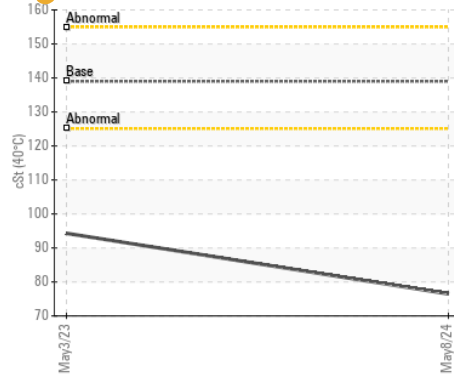
Aluminum (ppm)



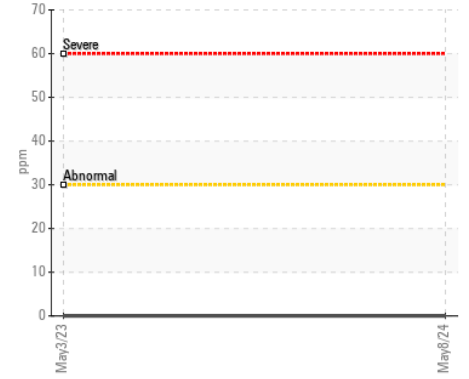
Copper (ppm)



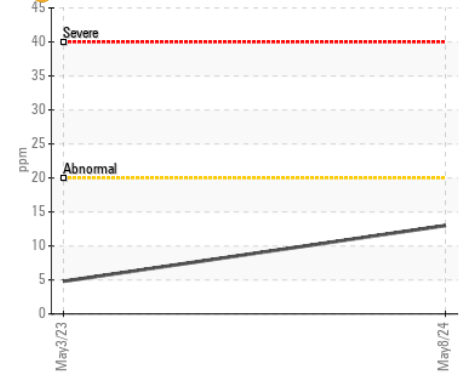
● Viscosity @ 40°C



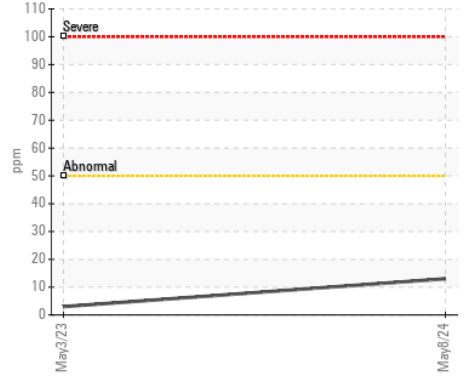
Lead (ppm)



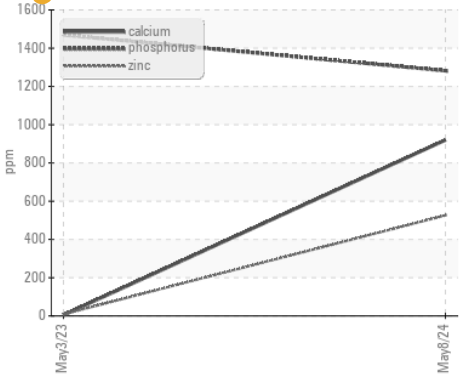
● Chromium (ppm)



Silicon (ppm)



● Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP453816  
**Lab Number** : 06175860  
**Unique Number** : 11021913  
**Test Package** : MOB 1

**Received** : 10 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 14 May 2024 - Sean Felton

**LANDMARK CONSTRUCTION CO. INC./MEM**  
 3255 INDUSTRY DRIVE  
 NORTH CHARLESTON, SC  
 US 29418

Contact: GENE RICHARDSON  
 grichardson@landmark-sc.com

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)

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