



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SWO-071952]**  
 Machine Id  
**VOLVO A45G 352969**  
 Component  
**Drop Box**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 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>VCP439672</b>	VCP446718	VCP435525
Sample Date		Client Info		<b>23 May 2024</b>	27 Feb 2024	20 Dec 2023
Machine Age	hrs	Client Info		<b>3944</b>	3453	2980
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>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changed</b>	N/A	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>105</b>	92	86
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	2
Lead	ppm	ASTM D5185m	>30	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>30	<b>15</b>	15	14
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

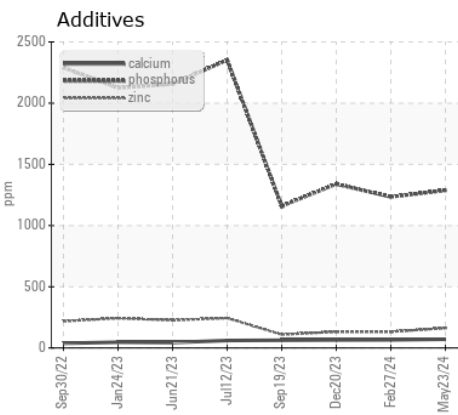
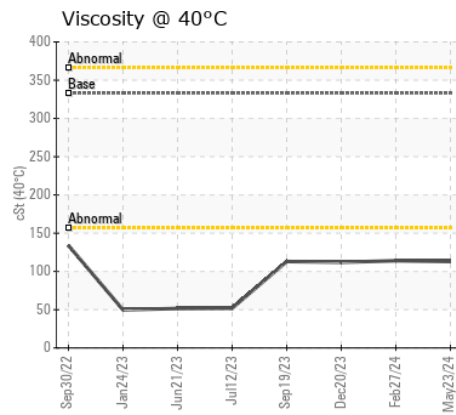
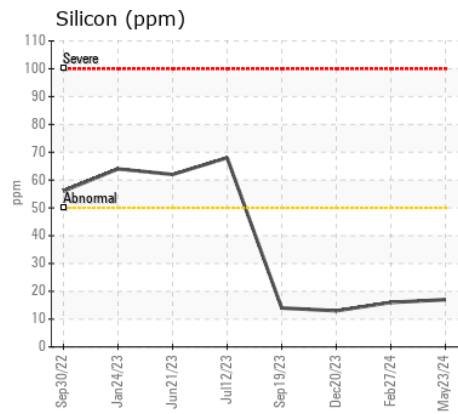
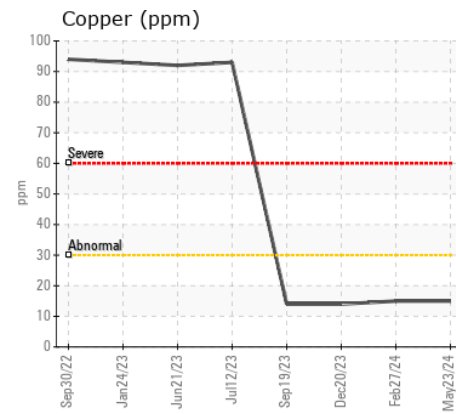
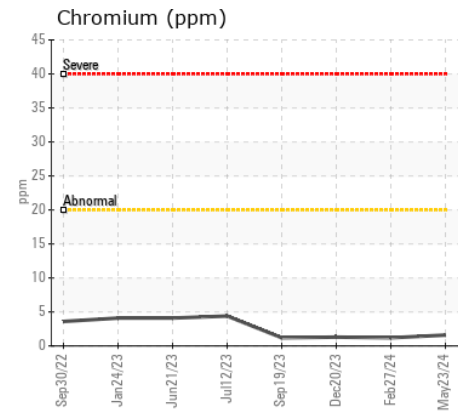
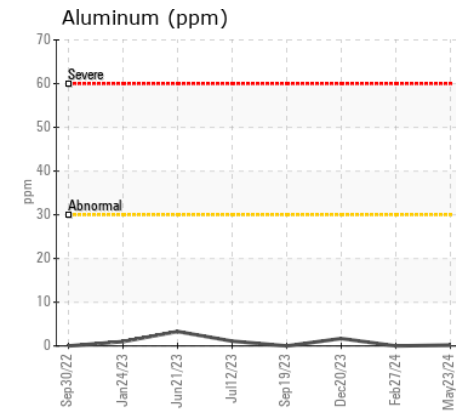
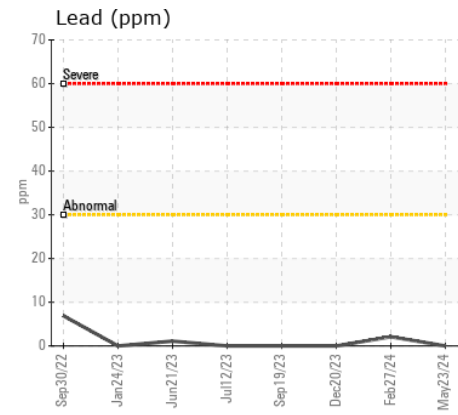
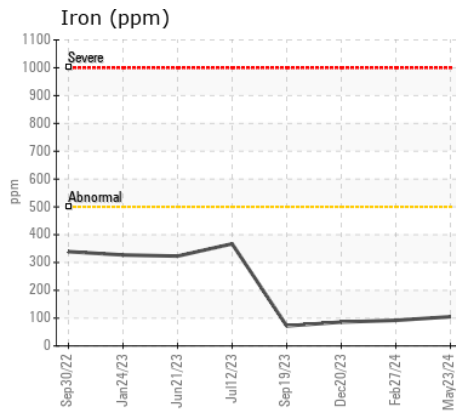
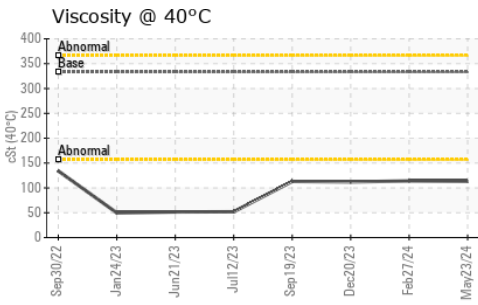
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>17</b>	16	13
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</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

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

Sodium	ppm	ASTM D5185m		<b>4</b>	4	0
Boron	ppm	ASTM D5185m	111	<b>103</b>	94	96
Barium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	5
Molybdenum	ppm	ASTM D5185m	0.9	<b>13</b>	11	7
Manganese	ppm	ASTM D5185m	0.0	<b>4</b>	3	0
Magnesium	ppm	ASTM D5185m	39	<b>16</b>	13	15
Calcium	ppm	ASTM D5185m	93	<b>71</b>	66	65
Phosphorus	ppm	ASTM D5185m	920	<b>1287</b>	1234	1339
Zinc	ppm	ASTM D5185m	104	<b>162</b>	132	132
Sulfur	ppm	ASTM D5185m	20179	<b>26082</b>	21393	27555
Visc @ 40°C	cSt	ASTM D445	333	<b>113</b>	114	112



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP439672  
**Lab Number** : 06195787  
**Unique Number** : 11057910  
**Test Package** : MOB 1  
**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 01 Jun 2024 - Don Baldrige

**SAIIA CONSTRUCTION LLC**  
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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)