



# CONSTRUCTION EQUIPMENT

## VOLVO A25G 752317 - REAR AXLE



**Sample No:** VCP452481  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP452481</b>	VCE00970	VC379660	---
Sample Date	<b>08 Apr 2024</b>	22 Jun 2022	10 Mar 2022	---
Machine Hours	<b>4883</b>	2216	865	---
Oil Hours	<b>0</b>	800	865	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	---

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### OIL CONDITION

Visc @ 40°C	cSt	<span style="color: green;">■</span> <b>144</b>	<span style="color: green;">■</span> 142	<span style="color: orange;">●</span> 92.2	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<span style="color: orange;">▲</span> <b>127</b>	<span style="color: green;">■</span> 7	<span style="color: green;">■</span> 5	---
Sodium	ppm	<span style="color: green;">■</span> <b>4</b>	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> <1	---
Potassium	ppm	<span style="color: green;">■</span> <b>7</b>	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 4	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<span style="color: green;">■</span> <b>505</b>	<span style="color: green;">■</span> 201	<span style="color: green;">■</span> 281	---
Copper	ppm	<span style="color: green;">■</span> <b>95</b>	<span style="color: green;">■</span> 14	<span style="color: green;">■</span> 40	---
Lead	ppm	<span style="color: green;">■</span> <b>&lt;1</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	---
Tin	ppm	<span style="color: green;">■</span> <b>4</b>	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> 2	---
Aluminum	ppm	<span style="color: orange;">●</span> <b>27</b>	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> <1	---
Chromium	ppm	<span style="color: green;">■</span> <b>4</b>	<span style="color: green;">■</span> 3	<span style="color: green;">■</span> 5	---
Molybdenum	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 3	<span style="color: green;">■</span> 12	---
Nickel	ppm	<span style="color: green;">■</span> <b>4</b>	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> 2	---
Titanium	ppm	<b>1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<span style="color: green;">■</span> <b>6</b>	<span style="color: green;">■</span> 4	<span style="color: green;">■</span> 11	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<span style="color: green;">■</span> <b>102</b>	<span style="color: green;">■</span> 58	<span style="color: green;">■</span> 611	---
Magnesium	ppm	<span style="color: green;">■</span> <b>4</b>	<span style="color: green;">■</span> 8	<span style="color: green;">■</span> 2	---
Zinc	ppm	<span style="color: green;">■</span> <b>41</b>	<span style="color: green;">■</span> 20	<span style="color: green;">■</span> 290	---
Phosphorus	ppm	<span style="color: green;">■</span> <b>622</b>	510	<span style="color: green;">■</span> 1464	---
Barium	ppm	<span style="color: green;">■</span> <b>&lt;1</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	---
Boron	ppm	<span style="color: green;">■</span> <b>11</b>	<span style="color: green;">■</span> 56	<span style="color: green;">■</span> 264	---

**Depot:** VOLV00129  
**Unique No:** 10969502  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



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## GRAPHS

