



# CONSTRUCTION EQUIPMENT

## 687121 APTIM VOLVO A35G 340236 - REAR AXLE



**Sample No:** VCP444170  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 687121 APTIM



### SAMPLE INFORMATION

Sample Number	<b>VCP444170</b>	VCP440003	VCP424154	VCP354035
Sample Date	<b>12 Mar 2024</b>	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	<b>8945</b>	7992	6888	5673
Oil Hours	<b>3000</b>	4000	4000	1600
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	SEVERE	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>51.9</b>	307	52.0	52.8
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	▲ 0.428	NEG
Silicon	ppm	■ <b>17</b>	▲ 109	▲ 339	■ 4
Sodium	ppm	■ <b>2</b>	■ 3	■ 2	■ <1
Potassium	ppm	■ <b>0</b>	■ 9	■ 12	■ 1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	■ <b>778</b>	▲ 925	▲ 1687	■ 172
Copper	ppm	■ <b>9</b>	■ 27	■ 43	■ 7
Lead	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>&lt;1</b>	● 19	● 284	■ <1
Chromium	ppm	■ <b>9</b>	■ 12	■ 13	■ 2
Molybdenum	ppm	■ <b>8</b>	■ 16	■ 2	■ 3
Nickel	ppm	■ <b>4</b>	■ 3	▲ 11	■ 0
Titanium	ppm	<b>0</b>	2	▲ 15	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	■ <b>19</b>	■ 23	■ 21	■ 9
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	■ <b>36</b>	■ 138	■ 42	■ 47
Magnesium	ppm	■ <b>2</b>	■ 37	■ 13	■ 1
Zinc	ppm	■ <b>60</b>	■ 99	■ 33	■ 37
Phosphorus	ppm	■ <b>2623</b>	■ 1090	■ 2089	■ 2675
Barium	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 2
Boron	ppm	■ <b>129</b>	■ 179	■ 54	■ 173

**Depot:** VOLVO0093  
**Unique No:** 10976304  
**Signed:** Don Baldrige  
**Report Date:** 15 Apr 2024



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## GRAPHS

