



# CONSTRUCTION EQUIPMENT

554307 APTIM VOLVO A35G 340236 - REAR AXLE



**Sample No:** VCP424154  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 554307 APTIM



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## SAMPLE INFORMATION

Sample Number	VCP424154	VCP354035	---	---
Sample Date	25 May 2023	31 Aug 2022	---	---
Machine Hours	6888	5673	---	---
Oil Hours	4000	1600	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---



## OIL CONDITION

Visc @ 40°C	cSt	▲ 52.0	▲ 52.8	---	---
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## CONTAMINATION

Water	%	▲ 0.428	---	---	---
Silicon	ppm	■ 339	■ 4	---	---
Sodium	ppm	■ 2	■ <1	---	---
Potassium	ppm	■ 12	■ 1	---	---



## WEAR METALS

Iron	ppm	▲ 1687	■ 172	---	---
Copper	ppm	■ 43	■ 7	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	▲ 284	■ <1	---	---
Chromium	ppm	■ 13	■ 2	---	---
Molybdenum	ppm	■ 2	■ 3	---	---
Nickel	ppm	▲ 11	■ 0	---	---
Titanium	ppm	▲ 15	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 21	■ 9	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	■ 42	■ 47	---	---
Magnesium	ppm	■ 13	■ 1	---	---
Zinc	ppm	■ 33	■ 37	---	---
Phosphorus	ppm	■ 2089	■ 2675	---	---
Barium	ppm	■ 0	■ 2	---	---
Boron	ppm	■ 54	■ 173	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. There is a high amount of visible silt present in the sample. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 10526257  
**Signed:** Doug Bogart  
**Report Date:** 29 Jun 2023



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## GRAPHS

