



# CONSTRUCTION EQUIPMENT

## 620255 APTIM VOLVO A35G 340109 - DIESEL ENGINE



**Sample No:** VCP426242  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 620255 APTIM



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### SAMPLE INFORMATION

Sample Number	<b>VCP426242</b>	VCP424459	VCP422457	---
Sample Date	<b>12 Oct 2023</b>	11 Jul 2023	16 Mar 2023	---
Machine Hours	<b>9376</b>	8937	8480	---
Oil Hours	<b>500</b>	500	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	---



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.7</b>	▲ 11.7	▲ 11.5	---
Base Number (BN)	mg KOH/g	<b>■ 9.9</b>	■ 9.3	■ 8.6	---
Oxidation (PA)	%	<b>78</b>	75	61	---



### CONTAMINATION

Soot %	%	<b>■ 0.2</b>	■ 0.2	■ 0.2	---
Nitration (PA)	%	<b>62</b>	64	68	---
Sulfation (PA)	%	<b>58</b>	58	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	■ 1.5	▲ 3.0	---
Silicon	ppm	<b>■ 7</b>	■ 10	■ 9	---
Sodium	ppm	<b>■ 2</b>	■ 2	■ 2	---
Potassium	ppm	<b>■ 0</b>	■ 0	■ <1	---



### WEAR METALS

Iron	ppm	<b>■ 7</b>	■ 13	■ 16	---
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ 1	---
Lead	ppm	<b>■ 1</b>	■ 0	■ 0	---
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---
Aluminum	ppm	<b>■ 2</b>	■ 4	■ 4	---
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	---
Molybdenum	ppm	<b>■ 44</b>	■ 48	■ 50	---
Nickel	ppm	<b>■ &lt;1</b>	■ <1	■ 1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	---
Manganese	ppm	<b>■ 0</b>	■ <1	■ <1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>■ 1582</b>	■ 1706	■ 1516	---
Magnesium	ppm	<b>■ 501</b>	■ 558	■ 625	---
Zinc	ppm	<b>■ 1102</b>	■ 1151	■ 977	---
Phosphorus	ppm	<b>■ 933</b>	■ 940	■ 829	---
Barium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 27</b>	■ 35	■ 50	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 10741860  
**Signed:** Sean Felton  
**Report Date:** 16 Nov 2023



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## GRAPHS

