



# CONSTRUCTION EQUIPMENT

## 621035 APTIM VOLVO A35G 340232 - DIESEL ENGINE



**Sample No:** VCP435652  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 621035 APTIM



### SAMPLE INFORMATION

Sample Number	<b>VCP435652</b>	VCP416012	VCP393981	VCP390719
Sample Date	<b>25 Oct 2023</b>	23 Jun 2023	16 Mar 2023	17 Oct 2022
Machine Hours	<b>8414</b>	7810	7309	6832
Oil Hours	<b>500</b>	4000	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.5</b>	▲ 11.8	▲ 11.7	■ 12.2
Base Number (BN)	mg KOH/g	<b>■ 9.3</b>	■ 9.6	■ 9.5	■ 11.2
Oxidation (PA)	%	<b>79</b>	78	79	88

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	■ 0.108
Soot %	%	<b>■ 0.2</b>	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	<b>64</b>	65	63	77
Sulfation (PA)	%	<b>60</b>	59	61	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<b>▲ 2.5</b>	■ 1.4
Silicon	ppm	<b>■ 5</b>	■ 6	■ 7	■ 7
Sodium	ppm	<b>■ 3</b>	■ 5	■ 11	■ 68
Potassium	ppm	<b>■ 0</b>	■ <1	■ 1	■ 11



### WEAR METALS

Iron	ppm	<b>■ 6</b>	■ 6	■ 7	■ 8
Copper	ppm	<b>■ 1</b>	■ 2	■ 1	■ 2
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ 3
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 1
Aluminum	ppm	<b>■ 2</b>	■ <1	■ 2	■ 3
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 42</b>	■ 43	■ 44	■ 37
Nickel	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>■ 1560</b>	■ 1640	■ 1635	■ 1616
Magnesium	ppm	<b>■ 485</b>	■ 503	■ 504	■ 473
Zinc	ppm	<b>■ 1083</b>	■ 1080	■ 1081	■ 1059
Phosphorus	ppm	<b>■ 906</b>	■ 892	■ 913	■ 892
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 8
Boron	ppm	<b>■ 25</b>	■ 29	■ 39	■ 18

**Depot:** VOLVO0093  
**Unique No:** 10752973  
**Signed:** Don Baldrige  
**Report Date:** 23 Nov 2023



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## GRAPHS

