



# CONSTRUCTION EQUIPMENT

## 633462 APTIM VOLVO A35G 340227 - DIESEL ENGINE



**Sample No:** VCP430283  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 633462 APTIM



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### SAMPLE INFORMATION

Sample Number	<b>VCP430283</b>	VCP425810	VCP425789	VCP421138
Sample Date	<b>13 Nov 2023</b>	27 Jul 2023	31 May 2023	03 Apr 2023
Machine Hours	<b>8075</b>	7611	7328	7139
Oil Hours	<b>500</b>	500	2000	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	SEVERE	ATTENTION



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.9</b>	▲ 12.2	▲ 5.2	▲ 12.0
Base Number (BN)	mg KOH/g	<b>■ 9.6</b>	■ 9.4	■ 24.1	■ 8.6
Oxidation (PA)	%	<b>79</b>	76	112	73



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	■ 5.68	NEG
Soot %	%	<b>■ 0.2</b>	■ 0.2	■ 0.3	■ 0.1
Nitration (PA)	%	<b>63</b>	56	180	56
Sulfation (PA)	%	<b>60</b>	59	14	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 0.6	<1.0
Silicon	ppm	<b>■ 4</b>	■ 5	■ 11	■ 5
Sodium	ppm	<b>■ 4</b>	■ 0	■ 3	■ 0
Potassium	ppm	<b>■ 1</b>	■ 2	■ <1	■ 1



### WEAR METALS

Iron	ppm	<b>■ 7</b>	■ 20	■ 39	■ 6
Copper	ppm	<b>■ 4</b>	■ 21	■ 8	■ <1
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ 2	■ <1
Aluminum	ppm	<b>■ 2</b>	■ 2	■ <1	■ 0
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 42</b>	■ 44	■ 39	■ 47
Nickel	ppm	<b>■ &lt;1</b>	■ 1	■ <1	■ 0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>■ 0</b>	■ <1	■ 0	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 1522</b>	■ 1636	■ 1527	■ 1566
Magnesium	ppm	<b>■ 477</b>	■ 469	■ 453	■ 494
Zinc	ppm	<b>■ 1045</b>	■ 1099	■ 1037	■ 1069
Phosphorus	ppm	<b>■ 872</b>	■ 933	■ 877	■ 882
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 2
Boron	ppm	<b>■ 26</b>	■ 52	■ 67	■ 38

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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:** 10764746  
**Signed:** Jonathan Hester  
**Report Date:** 30 Nov 2023



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## VOLVO GRAPHS

