



# CONSTRUCTION EQUIPMENT

## 622053 APTIM VOLVO A35G 340041 - DIESEL ENGINE



**Sample No:** VCP436028  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 622053 APTIM



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### SAMPLE INFORMATION

Sample Number	<b>VCP436028</b>	VCP417004	VCP411181	VCP395999
Sample Date	<b>02 Nov 2023</b>	28 Jul 2023	09 May 2023	03 Feb 2023
Machine Hours	<b>13178</b>	12724	12238	11776
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.5</b>	▲ 11.9	▲ 11.8	▲ 12.2
Base Number (BN)	mg KOH/g	<b>■ 9.5</b>	■ 9.5	■ 9.8	■ 9.6
Oxidation (PA)	%	<b>77</b>	76	75	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.2</b>	■ 0.1	■ 0.1	■ 0.2
Nitration (PA)	%	<b>59</b>	58	66	71
Sulfation (PA)	%	<b>58</b>	57	58	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<b>▲ 1.9</b>	<b>▲ 2.6</b>
Silicon	ppm	<b>■ 5</b>	■ 4	■ 5	■ 8
Sodium	ppm	<b>■ 2</b>	■ 0	■ 3	■ 11
Potassium	ppm	<b>■ &lt;1</b>	■ 2	■ 2	■ 3



### WEAR METALS

Iron	ppm	<b>■ 2</b>	■ 4	■ 4	■ 8
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ 1
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 2
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ 1</b>	■ 1	■ 2	■ 2
Chromium	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Molybdenum	ppm	<b>■ 40</b>	■ 43	■ 47	■ 52
Nickel	ppm	<b>■ 0</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	<1	0



### ADDITIVES

Calcium	ppm	<b>■ 1479</b>	■ 1628	■ 1636	■ 1724
Magnesium	ppm	<b>■ 466</b>	■ 465	■ 538	■ 529
Zinc	ppm	<b>■ 1026</b>	■ 1091	■ 1166	■ 1076
Phosphorus	ppm	<b>■ 852</b>	■ 918	■ 954	■ 891
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 28</b>	■ 33	■ 34	■ 34

### 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:** 10764771  
**Signed:** Jonathan Hester  
**Report Date:** 30 Nov 2023



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## VOLVO GRAPHS

