



# CONSTRUCTION EQUIPMENT

580677 APTIM VOLVO A35G 340041 - DIESEL ENGINE



**Sample No:** VCP417004  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 580677 APTIM



## SAMPLE INFORMATION

Sample Number	<b>VCP417004</b>	VCP411181	VCP395999	VCP159454
Sample Date	<b>28 Jul 2023</b>	09 May 2023	03 Feb 2023	31 May 2015
Machine Hours	<b>12724</b>	12238	11776	1194
Oil Hours	<b>500</b>	500	500	0
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>▲ 11.9</b>	▲ 11.8	▲ 12.2	■ 13.39
Base Number (BN)	mg KOH/g	<b>■ 9.5</b>	■ 9.8	■ 9.6	---
Oxidation (PA)	%	<b>76</b>	75	80	■ 52

## 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.



## CONTAMINATION

Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.2	■ 0.1
Nitration (PA)	%	<b>58</b>	66	71	■ 50
Sulfation (PA)	%	<b>57</b>	58	60	■ 42
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	▲ 1.9	▲ 2.6	<1.0
Silicon	ppm	<b>■ 4</b>	■ 5	■ 8	■ 6
Sodium	ppm	<b>■ 0</b>	■ 3	■ 11	■ 5
Potassium	ppm	<b>■ 2</b>	■ 2	■ 3	■ 0



## WEAR METALS

Iron	ppm	<b>■ 4</b>	■ 4	■ 8	■ 9
Copper	ppm	<b>■ &lt;1</b>	■ 0	■ 1	■ 6
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ 2	■ 0
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 0
Aluminum	ppm	<b>■ 1</b>	■ 2	■ 2	■ 1
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 43</b>	■ 47	■ 52	■ 49
Nickel	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ <1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>■ 1628</b>	■ 1636	■ 1724	■ 1430
Magnesium	ppm	<b>■ 465</b>	■ 538	■ 529	962
Zinc	ppm	<b>■ 1091</b>	■ 1166	■ 1076	■ 1107
Phosphorus	ppm	<b>■ 918</b>	■ 954	■ 891	■ 931
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 33</b>	■ 34	■ 34	■ 40

**Depot:** VOLVO0093  
**Unique No:** 10589101  
**Signed:** Don Baldrige  
**Report Date:** 08 Aug 2023



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## GRAPHS

