



# CONSTRUCTION EQUIPMENT

716433 APTIM VOLVO A35G 340236 - DIESEL ENGINE



**Sample No:** VCP454856  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 716433 APTIM



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## SAMPLE INFORMATION

Sample Number	<b>VCP454856</b>	VCP437936	VCP440002	VCP435656
Sample Date	<b>22 May 2024</b>	12 Mar 2024	26 Feb 2024	25 Oct 2023
Machine Hours	<b>8569</b>	8945	7992	7463
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	NORMAL	NORMAL



## OIL CONDITION

Visc @ 100°C	cSt	<b>11.8</b>	11.7	12.0	12.1
Base Number (BN)	mg KOH/g	<b>8.9</b>	9.6	9.1	8.7
Oxidation (PA)	%	<b>74</b>	81	80	76



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.3	0.3
Nitration (PA)	%	<b>70</b>	69	70	67
Sulfation (PA)	%	<b>58</b>	60	59	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	6	6
Sodium	ppm	<b>3</b>	2	3	3
Potassium	ppm	<b>&lt;1</b>	<1	2	0



## WEAR METALS

Iron	ppm	<b>9</b>	8	8	7
Copper	ppm	<b>2</b>	1	2	1
Lead	ppm	<b>2</b>	2	1	<1
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>4</b>	2	5	3
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>39</b>	41	42	42
Nickel	ppm	<b>&lt;1</b>	2	3	1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<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	<1	<1



## ADDITIVES

Calcium	ppm	<b>1617</b>	1846	1626	1579
Magnesium	ppm	<b>565</b>	540	527	526
Zinc	ppm	<b>1097</b>	1222	1110	1123
Phosphorus	ppm	<b>944</b>	972	912	931
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>22</b>	24	24	22

## 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:** 11071682  
**Signed:** Sean Felton  
**Report Date:** 12 Jun 2024



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## VOLVO GRAPHS

