



# CONSTRUCTION EQUIPMENT

## 24465 VOLVO A25G 752319 - DIESEL ENGINE



**Sample No:** VCP429025  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24465



### SAMPLE INFORMATION

Sample Number	<b>VCP429025</b>	VCP411042	VCP400685	VCP371892
Sample Date	<b>28 Nov 2023</b>	25 Apr 2023	01 Feb 2023	06 Aug 2022
Machine Hours	<b>2179</b>	1546	1376	864
Oil Hours	<b>500</b>	500	1000	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 10.5</b>	■ 13.0	■ 12.7	11.3
Base Number (BN)	mg KOH/g	■ <b>9.2</b>	■ 9.0	■ 8.6	■ 6.9
Oxidation (PA)	%	<b>67</b>	76	83	74

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	■ <b>0.2</b>	■ 0.1	■ 0.2	■ 0.2
Nitration (PA)	%	<b>65</b>	51	78	79
Sulfation (PA)	%	<b>58</b>	57	63	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	■ <b>1.0</b>	<1.0	<1.0	■ 0.4
Silicon	ppm	■ <b>6</b>	■ 6	■ 10	■ 45
Sodium	ppm	■ <b>0</b>	■ 4	■ 2	■ 0
Potassium	ppm	■ <b>2</b>	■ 0	■ 2	■ 4

### 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. Fuel content negligible. 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.

### WEAR METALS

Iron	ppm	■ <b>9</b>	■ 7	■ 13	■ 29
Copper	ppm	■ <b>22</b>	▲ 40	▲ 139	▲ 343
Lead	ppm	■ <b>&lt;1</b>	■ 0	■ <1	■ <1
Tin	ppm	■ <b>&lt;1</b>	■ 0	■ 2	■ 5
Aluminum	ppm	■ <b>2</b>	■ 1	■ <1	■ 2
Chromium	ppm	■ <b>0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <b>30</b>	■ 41	■ 51	■ 63
Nickel	ppm	■ <b>1</b>	■ <1	■ 1	■ 0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	■ <b>&lt;1</b>	■ <1	■ 0	1
Manganese	ppm	■ <b>0</b>	■ 1	■ 1	5
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	■ <b>2185</b>	■ 1736	■ 1900	■ 1873
Magnesium	ppm	■ <b>331</b>	■ 515	■ 461	■ 356
Zinc	ppm	■ <b>1081</b>	■ 1144	■ 1193	■ 1239
Phosphorus	ppm	■ <b>923</b>	■ 949	■ 986	■ 1037
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	■ <b>35</b>	■ 60	■ 25	■ 47

**Depot:** VOLVO3387  
**Unique No:** 10766826  
**Signed:** Jonathan Hester  
**Report Date:** 06 Dec 2023



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## GRAPHS

