



# CONSTRUCTION EQUIPMENT

## VOLVO A25G 740250 - DIESEL ENGINE



**Sample No:** VCP451398  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP451398</b>	VCP445624	VCP437593	VCP434826
Sample Date	<b>28 Jun 2024</b>	22 Apr 2024	26 Feb 2024	08 Nov 2023
Machine Hours	<b>6651</b>	6403	6109	5775
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.3	11.7	12.0
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.6	9.4	9.8
Oxidation (PA)	%	<b>76</b>	80	79	80

### Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	55	59	58
Sulfation (PA)	%	<b>58</b>	61	58	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	4	4
Sodium	ppm	<b>2</b>	1	2	<1
Potassium	ppm	<b>2</b>	2	<1	0



### WEAR METALS

Iron	ppm	<b>3</b>	4	2	2
Copper	ppm	<b>1</b>	2	<1	0
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	2	1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>43</b>	39	43	47
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1743</b>	1588	1632	1594
Magnesium	ppm	<b>479</b>	471	504	525
Zinc	ppm	<b>1120</b>	1078	1143	1103
Phosphorus	ppm	<b>972</b>	930	938	922
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>58</b>	43	43	45

**Depot:** VOLVO0090  
**Unique No:** 1113285  
**Signed:** Sean Felton  
**Report Date:** 09 Jul 2024



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## GRAPHS

