



# CONSTRUCTION EQUIPMENT

## VOLVO A25G 752045 - DIESEL ENGINE



**Sample No:** VCP447758  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP447758</b>	VCP387387	VCP319318	VCP305195
Sample Date	<b>21 May 2024</b>	15 Sep 2023	25 Aug 2021	01 Mar 2021
Machine Hours	<b>4514</b>	3862	1613	511
Oil Hours	<b>0</b>	0	1000	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.3	12.6	11.6
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.8	---	---
Oxidation (PA)	%	<b>77</b>	73	80	68

### 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	0.1	NEG
Soot %	%	<b>0.2</b>	0.2	0.5	0.3
Nitration (PA)	%	<b>56</b>	48	81	66
Sulfation (PA)	%	<b>60</b>	58	63	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.4
Silicon	ppm	<b>5</b>	4	5	30
Sodium	ppm	<b>2</b>	2	1	3
Potassium	ppm	<b>1</b>	<1	<1	7



### WEAR METALS

Iron	ppm	<b>8</b>	4	19	26
Copper	ppm	<b>4</b>	2	150	590
Lead	ppm	<b>1</b>	<1	0	0
Tin	ppm	<b>1</b>	<1	2	0
Aluminum	ppm	<b>4</b>	1	0	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>52</b>	46	44	55
Nickel	ppm	<b>&lt;1</b>	<1	1	2
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>1</b>	0	0	2
Manganese	ppm	<b>&lt;1</b>	<1	1	4
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1606</b>	1542	1600	1103
Magnesium	ppm	<b>504</b>	486	524	935
Zinc	ppm	<b>1078</b>	1029	1042	1160
Phosphorus	ppm	<b>924</b>	877	830	998
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>55</b>	57	13	2

**Depot:** VOLVO0090  
**Unique No:** 11050431  
**Signed:** Wes Davis  
**Report Date:** 30 May 2024



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## GRAPHS

