



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 752335 - DIESEL ENGINE



**Sample No:** VCP450512  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP450512</b>	VCP438444	VCP438448	VCP433540
Sample Date	<b>19 Jun 2024</b>	05 Apr 2024	27 Jan 2024	20 Oct 2023
Machine Hours	<b>2476</b>	1960	1472	997
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.3	12.2	12.0
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.3	10.2	8.2
Oxidation (PA)	%	<b>76</b>	78	78	75

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>53</b>	52	53	54
Sulfation (PA)	%	<b>58</b>	59	59	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.4
Silicon	ppm	<b>4</b>	4	6	12
Sodium	ppm	<b>1</b>	2	2	4
Potassium	ppm	<b>1</b>	0	2	<1



### WEAR METALS

Iron	ppm	<b>2</b>	6	5	15
Copper	ppm	<b>7</b>	2	2	9
Lead	ppm	<b>0</b>	0	1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	<1	2	3
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>40</b>	39	44	56
Nickel	ppm	<b>0</b>	0	1	2
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	<1



### ADDITIVES

Calcium	ppm	<b>1640</b>	1649	1574	1762
Magnesium	ppm	<b>491</b>	494	498	600
Zinc	ppm	<b>1124</b>	1098	1105	1314
Phosphorus	ppm	<b>864</b>	944	966	1102
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>46</b>	55	54	66

**Depot:** VOLVO0090  
**Unique No:** 11098969  
**Signed:** Jonathan Hester  
**Report Date:** 27 Jun 2024



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## GRAPHS

