



# CONSTRUCTION EQUIPMENT

## VOLVO A25D 72011 - DIESEL ENGINE



**Sample No:** VCP401650  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP401650</b>	VCP384163	VCP374947	VCP303005
Sample Date	<b>15 Jun 2023</b>	24 Jan 2023	29 Sep 2022	16 Mar 2021
Machine Hours	<b>12895</b>	12410	11930	10660
Oil Hours	<b>0</b>	500	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**LEONARDS CONTRACTING**  
 30850 STEPHENSON HWY  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.4	11.6	11.9
Base Number (BN)	mg KOH/g	<b>9.5</b>	10.0	10.3	---
Oxidation (PA)	%	<b>85</b>	78	66	86

### CONTAMINATION

Soot %	%	<b>0.6</b>	0.6	0.7	0.3
Nitration (PA)	%	<b>58</b>	61	68	59
Sulfation (PA)	%	<b>64</b>	61	58	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	2.1	<1.0
Silicon	ppm	<b>5</b>	9	15	8
Sodium	ppm	<b>2</b>	1	<1	2
Potassium	ppm	<b>0</b>	2	0	<1

### 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.

### WEAR METALS

Iron	ppm	<b>7</b>	11	12	5
Copper	ppm	<b>&lt;1</b>	<1	1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	0	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	51	54	39
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>1759</b>	1775	1177	1614
Magnesium	ppm	<b>544</b>	608	871	485
Zinc	ppm	<b>1236</b>	1265	1225	1083
Phosphorus	ppm	<b>971</b>	1074	948	924
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>50</b>	51	3	64

**Depot:** LEOMAD  
**Unique No:** 10532304  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2023



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## VOLVO GRAPHS

