



# CONSTRUCTION EQUIPMENT

## VOLVO A25G 752598 - DIESEL ENGINE



**Sample No:** VCP433516  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433516</b>	VCP419487	VCP403701	---
Sample Date	<b>06 Nov 2023</b>	26 May 2023	08 May 2023	---
Machine Hours	<b>1489</b>	528	497	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	11.0	10.8	---
Base Number (BN)	mg KOH/g	<b>7.7</b>	7.3	6.5	---
Oxidation (PA)	%	<b>84</b>	61	60	---



### CONTAMINATION

Soot %	%	<b>0.4</b>	0.2	0.1	---
Nitration (PA)	%	<b>80</b>	76	81	---
Sulfation (PA)	%	<b>62</b>	54	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.4	---
Silicon	ppm	<b>10</b>	47	57	---
Sodium	ppm	<b>2</b>	3	3	---
Potassium	ppm	<b>0</b>	2	3	---



### WEAR METALS

Iron	ppm	<b>15</b>	17	19	---
Copper	ppm	<b>91</b>	423	454	---
Lead	ppm	<b>1</b>	4	6	---
Tin	ppm	<b>&lt;1</b>	2	2	---
Aluminum	ppm	<b>1</b>	2	5	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>47</b>	80	83	---
Nickel	ppm	<b>&lt;1</b>	<1	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>&lt;1</b>	<1	1	---
Manganese	ppm	<b>2</b>	4	5	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1760</b>	2132	2203	---
Magnesium	ppm	<b>480</b>	85	12	---
Zinc	ppm	<b>1130</b>	1202	1226	---
Phosphorus	ppm	<b>928</b>	1012	995	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>23</b>	49	43	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0090  
**Unique No:** 10737060  
**Signed:** Don Baldrige  
**Report Date:** 13 Nov 2023



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## GRAPHS

