



# CONSTRUCTION EQUIPMENT

## 702804 ALTA RENTS VOLVO A25G 752747 - DIESEL ENGINE



**Sample No:** VCP454721  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 702804 ALTA RENTS



**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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### SAMPLE INFORMATION

Sample Number	<b>VCP454721</b>	VCP440252	VCP412459	---
Sample Date	<b>24 Apr 2024</b>	16 Oct 2023	05 Aug 2023	---
Machine Hours	<b>1555</b>	823	518	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	10.8	11.0	---
Base Number (BN)	mg KOH/g	<b>7.2</b>	5.4	6.2	---
Oxidation (PA)	%	<b>82</b>	62	60	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.5</b>	0.4	0.3	---
Nitration (PA)	%	<b>79</b>	79	78	---
Sulfation (PA)	%	<b>63</b>	57	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	---
Silicon	ppm	<b>11</b>	53	53	---
Sodium	ppm	<b>2</b>	4	2	---
Potassium	ppm	<b>2</b>	5	3	---



### WEAR METALS

Iron	ppm	<b>24</b>	29	20	---
Copper	ppm	<b>81</b>	185	311	---
Lead	ppm	<b>&lt;1</b>	<1	4	---
Tin	ppm	<b>2</b>	3	2	---
Aluminum	ppm	<b>3</b>	3	2	---
Chromium	ppm	<b>1</b>	<1	<1	---
Molybdenum	ppm	<b>48</b>	78	76	---
Nickel	ppm	<b>16</b>	3	1	---
Titanium	ppm	<b>1</b>	8	7	---
Silver	ppm	<b>&lt;1</b>	<1	<1	---
Manganese	ppm	<b>2</b>	6	5	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1633</b>	2116	2176	---
Magnesium	ppm	<b>466</b>	86	93	---
Zinc	ppm	<b>1063</b>	1202	1261	---
Phosphorus	ppm	<b>883</b>	990	1021	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>18</b>	18	41	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. Valve wear is indicated. 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 acceptable for the time in service.

**Depot:** VOLVO0096  
**Unique No:** 11004814  
**Signed:** Jonathan Hester  
**Report Date:** 02 May 2024



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## GRAPHS

