



# CONSTRUCTION EQUIPMENT

## 25458 VOLVO A45G 342052 - DIESEL ENGINE



**Sample No:** VCP421605  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 25458



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### SAMPLE INFORMATION

Sample Number	<b>VCP421605</b>	VCP440942	VCP433650	---
Sample Date	<b>01 May 2024</b>	07 Feb 2024	27 Sep 2023	---
Machine Hours	<b>8114</b>	7690	7336	---
Oil Hours	<b>0</b>	0	500	---
Oil Changed	<b>Changed</b>	N/A	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.5	12.8	---
Base Number (BN)	mg KOH/g	<b>8.9</b>	9.6	6.8	---
Oxidation (PA)	%	<b>81</b>	75	58	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.4	0.4	---
Nitration (PA)	%	<b>70</b>	62	58	---
Sulfation (PA)	%	<b>61</b>	60	58	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	8	9	---
Sodium	ppm	<b>1</b>	2	5	---
Potassium	ppm	<b>1</b>	0	4	---



### WEAR METALS

Iron	ppm	<b>14</b>	12	11	---
Copper	ppm	<b>2</b>	3	17	---
Lead	ppm	<b>1</b>	<1	2	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>4</b>	4	4	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>46</b>	46	100	---
Nickel	ppm	<b>1</b>	<1	<1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1620</b>	1596	1555	---
Magnesium	ppm	<b>479</b>	493	497	---
Zinc	ppm	<b>1086</b>	1104	1358	---
Phosphorus	ppm	<b>924</b>	959	1125	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>47</b>	83	488	---

### 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.

**Depot:** VOLVO3387  
**Unique No:** 11015856  
**Signed:** Wes Davis  
**Report Date:** 07 May 2024



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## GRAPHS

