



# CONSTRUCTION EQUIPMENT

## 6750 VOLVO A30G 742431 - DIESEL ENGINE



**Sample No:** VCP421142  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 6750



### SAMPLE INFORMATION

Sample Number	<b>VCP421142</b>	VCP390542	VCP348418	---
Sample Date	<b>26 Jul 2023</b>	09 Nov 2022	28 Mar 2022	---
Machine Hours	<b>1561</b>	1006	578	---
Oil Hours	<b>0</b>	1006	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.0</b>	▲ 11.6	▲ 9.3	---
Base Number (BN)	mg KOH/g	<b>■ 9.4</b>	■ 10.3	■ 6.0	---
Oxidation (PA)	%	<b>82</b>	84	65	---

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>■ 0.3</b>	■ 0.3	■ 0.3	---
Nitration (PA)	%	<b>67</b>	66	60	---
Sulfation (PA)	%	<b>63</b>	68	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>▲ 3.2</b>	▲ 2.7	▲ 7.0	---
Silicon	ppm	<b>■ 7</b>	■ 10	■ 46	---
Sodium	ppm	<b>■ 0</b>	■ 4	■ 4	---
Potassium	ppm	<b>■ 2</b>	■ 0	■ 3	---



### WEAR METALS

Iron	ppm	<b>■ 14</b>	■ 11	■ 28	---
Copper	ppm	<b>■ 10</b>	▲ 62	▲ 342	---
Lead	ppm	<b>■ &lt;1</b>	■ 1	■ 4	---
Tin	ppm	<b>■ 2</b>	■ 3	■ 5	---
Aluminum	ppm	<b>■ 2</b>	■ 4	■ 2	---
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---
Molybdenum	ppm	<b>■ 40</b>	■ 37	■ 5	---
Nickel	ppm	<b>■ &lt;1</b>	■ <1	■ 0	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>■ 0</b>	■ 0	<1	---
Manganese	ppm	<b>■ &lt;1</b>	■ 1	■ 4	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>■ 1633</b>	■ 1743	■ 2058	---
Magnesium	ppm	<b>■ 467</b>	■ 480	9	---
Zinc	ppm	<b>■ 1060</b>	■ 1165	■ 1133	---
Phosphorus	ppm	<b>■ 842</b>	■ 994	■ 969	---
Barium	ppm	<b>■ 11</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 32</b>	■ 39	■ 1	---

**Depot:** ASCMAC  
**Unique No:** 10782856  
**Signed:** Wes Davis  
**Report Date:** 18 Dec 2023



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## GRAPHS

