



# CONSTRUCTION EQUIPMENT

## 594615 APTIM VOLVO A30G 740273 - DIESEL ENGINE



**Sample No:** VCP416189  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 594615 APTIM



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### SAMPLE INFORMATION

Sample Number	<b>VCP416189</b>	VCP422498	VCP364333	---
Sample Date	<b>22 Aug 2023</b>	29 Mar 2023	01 Sep 2022	---
Machine Hours	<b>11091</b>	10657	10152	---
Oil Hours	<b>500</b>	500	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	---



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.9</b>	▲ 12.1	▲ 12.3	---
Base Number (BN)	mg KOH/g	<b>■ 9.3</b>	■ 9.1	■ 10.1	---
Oxidation (PA)	%	<b>78</b>	75	87	---



### CONTAMINATION

Soot %	%	<b>■ 0.3</b>	■ 0.4	■ 0.4	---
Nitration (PA)	%	<b>63</b>	67	84	---
Sulfation (PA)	%	<b>60</b>	60	66	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 1.8	---
Silicon	ppm	<b>■ 6</b>	■ 7	■ 7	---
Sodium	ppm	<b>■ 1</b>	■ 2	■ 3	---
Potassium	ppm	<b>■ 0</b>	■ 0	■ <1	---



### WEAR METALS

Iron	ppm	<b>■ 8</b>	■ 11	■ 11	---
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---
Lead	ppm	<b>■ &lt;1</b>	■ 0	■ <1	---
Tin	ppm	<b>■ 1</b>	■ <1	■ <1	---
Aluminum	ppm	<b>■ 4</b>	■ 3	■ 4	---
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	---
Molybdenum	ppm	<b>■ 45</b>	■ 42	■ 33	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	<1	<1	---
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>■ 1693</b>	■ 1684	■ 1578	---
Magnesium	ppm	<b>■ 528</b>	■ 538	■ 437	---
Zinc	ppm	<b>■ 1150</b>	■ 1109	■ 1035	---
Phosphorus	ppm	<b>■ 933</b>	■ 939	■ 855	---
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 31</b>	■ 32	■ 18	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 10668483  
**Signed:** Jonathan Hester  
**Report Date:** 28 Sep 2023



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## GRAPHS

