



# CONSTRUCTION EQUIPMENT

## X18243 APAC BLACKHAW VOLVO A40G 352867 - DIESEL ENGINE



**Sample No:** VCP442321  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X18243 APAC BLACKHAW



### SAMPLE INFORMATION

Sample Number	VCP442321	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	3985	---	---	---
Oil Hours	300	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	---	---	---
Base Number (BN)	mg KOH/g	■ 7.8	---	---	---
Oxidation (PA)	%	86	---	---	---

### 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. Fuel content negligible. 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.



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	92	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.2	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 2	---	---	---



### WEAR METALS

Iron	ppm	■ 13	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 8	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 41	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	■ 1590	---	---	---
Magnesium	ppm	■ 501	---	---	---
Zinc	ppm	■ 1108	---	---	---
Phosphorus	ppm	■ 977	---	---	---
Barium	ppm	■ 10	---	---	---
Boron	ppm	■ 18	---	---	---

**Depot:** VOLVO8771  
**Unique No:** 10885605  
**Signed:** Jonathan Hester  
**Report Date:** 22 Feb 2024



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## GRAPHS

