



# CONSTRUCTION EQUIPMENT

## VOLVO A40G VCP 440013 (S/N NOT GIVEN) - DIESEL ENGINE



**Sample No:** VCP440013  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP440013	---	---	---
Sample Date	21 Feb 2024	---	---	---
Machine Hours	4594	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: ROBERT TURNER  
 rturner@ripatampa.com  
 T:  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	● 12.2	---	---	---
Base Number (BN)	mg KOH/g	■ 9.4	---	---	---
Oxidation (PA)	%	71	---	---	---

**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. Confirm oil type.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 8	---	---	---
Potassium	ppm	■ 6	---	---	---

### WEAR METALS

Iron	ppm	■ 6	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 49	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1506	---	---	---
Magnesium	ppm	672	---	---	---
Zinc	ppm	■ 1195	---	---	---
Phosphorus	ppm	■ 1026	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 27	---	---	---

**Depot:** RIPTAM  
**Unique No:** 11018415  
**Signed:** Don Baldrige  
**Report Date:** 13 May 2024



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## GRAPHS

