



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752080 - DIESEL ENGINE



**Sample No:** VCP428557  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP428557	---	---	---
Sample Date	06 Feb 2024	---	---	---
Machine Hours	810	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: ROBERT TURNER  
 rturner@ripatampa.com



### OIL CONDITION

Visc @ 100°C	cSt	● 11.1	---	---	---
Base Number (BN)	mg KOH/g	■ 4.6	---	---	---
Oxidation (PA)	%	70	---	---	---

T:  
F:

### Diagnosis

No corrective action is recommended at this time. 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 %	%	■ 0.4	---	---	---
Nitration (PA)	%	95	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	■ 24	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 6	---	---	---



### WEAR METALS

Iron	ppm	■ 28	---	---	---
Copper	ppm	■ 155	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 84	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 1920	---	---	---
Magnesium	ppm	■ 112	---	---	---
Zinc	ppm	■ 1114	---	---	---
Phosphorus	ppm	■ 918	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 6	---	---	---

**Depot:** RIPTAM  
**Unique No:** 10900458  
**Signed:** Jonathan Hester  
**Report Date:** 04 Mar 2024



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## GRAPHS

