



# CONSTRUCTION EQUIPMENT

T AND K VOLVO A45 752152 - DIESEL ENGINE



**Sample No:** VCP437075  
**Oil Type:** {unknown}  
**Job No:** T AND K



## SAMPLE INFORMATION

Sample Number	VCP437075	---	---	---
Sample Date	15 Mar 2024	---	---	---
Machine Hours	499	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 10.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.1	---	---	---
Oxidation (PA)	%	53	---	---	---

## Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	74	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 0.7	---	---	---
Silicon	ppm	█ 27	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---



## WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	▲ 437	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 5	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 84	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 2278	---	---	---
Magnesium	ppm	█ 17	---	---	---
Zinc	ppm	█ 1220	---	---	---
Phosphorus	ppm	█ 1061	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 48	---	---	---

**Depot:** VOLVO0093  
**Unique No:** 10940252  
**Signed:** Don Baldrige  
**Report Date:** 26 Mar 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

