



# CONSTRUCTION EQUIPMENT

## 578360 T&K CONSTRUCT VOLVO A45G 352823 - DIESEL ENGINE



**Sample No:** VCP445596  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 578360 T&K CONSTRUCT



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### SAMPLE INFORMATION

Sample Number	VCP445596	VCP437078	---	---
Sample Date	10 Jun 2024	15 Mar 2024	---	---
Machine Hours	4183	3874	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---



### OIL CONDITION

Visc @ 100°C	cSt	● 12.1	■ 12.8	---	---
Base Number (BN)	mg KOH/g	■ 9.4	■ 9.2	---	---
Oxidation (PA)	%	74	78	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.4	■ 0.4	---	---
Nitration (PA)	%	64	64	---	---
Sulfation (PA)	%	59	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.4	<1.0	---	---
Silicon	ppm	■ 5	■ 12	---	---
Sodium	ppm	■ 3	■ 1	---	---
Potassium	ppm	■ 0	■ 1	---	---



### WEAR METALS

Iron	ppm	■ 11	■ 21	---	---
Copper	ppm	■ <1	■ 1	---	---
Lead	ppm	■ 0	■ 1	---	---
Tin	ppm	■ 0	■ 2	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ 2	---	---
Molybdenum	ppm	■ 39	■ 43	---	---
Nickel	ppm	■ <1	■ 4	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	■ 1560	■ 1667	---	---
Magnesium	ppm	■ 534	■ 519	---	---
Zinc	ppm	■ 1030	■ 1117	---	---
Phosphorus	ppm	■ 915	■ 951	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 34	■ 46	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

**Depot:** VOLVO0093  
**Unique No:** 11126333  
**Signed:** Sean Felton  
**Report Date:** 18 Jul 2024



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## GRAPHS

