



CONSTRUCTION EQUIPMENT

578343 T&K CONSTRUCT VOLVO A45G 752 151 - DIESEL ENGINE



Sample No: VCP439775
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 578343 T&K CONSTRUCT



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP439775	---	---	---
Sample Date	07 Jun 2024	---	---	---
Machine Hours	646	---	---	---
Oil Hours	646	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	● 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 6.2	---	---	---
Oxidation (PA)	%	55	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	80	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 28	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 1	---	---	---



WEAR METALS

Iron	ppm	■ 20	---	---	---
Copper	ppm	▲ 383	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 75	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2305	---	---	---
Magnesium	ppm	32	---	---	---
Zinc	ppm	■ 1120	---	---	---
Phosphorus	ppm	■ 991	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 29	---	---	---

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. 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. Tests indicate that there is no fuel present in the oil. 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: 11126322
Signed: Sean Felton
Report Date: 18 Jul 2024



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GRAPHS

