



CONSTRUCTION EQUIPMENT

SPM608117 VOLVO A25G 752683 - DIESEL ENGINE



Sample No: VCP433600
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM608117



SAMPLE INFORMATION

Sample Number	VCP433600	---	---	---
Sample Date	28 Sep 2023	---	---	---
Machine Hours	617	---	---	---
Oil Hours	617	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 6.4	---	---	---
Oxidation (PA)	%	55	---	---	---

CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	▲ 77	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	▲ 425	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 85	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 1	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2142	---	---	---
Magnesium	ppm	■ 34	---	---	---
Zinc	ppm	■ 1205	---	---	---
Phosphorus	ppm	■ 938	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 60	---	---	---

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. Elemental level of silicon (Si) above normal indicating ingress of seal material. Tests indicate that there is no fuel present 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: VOLVO0090
Unique No: 10701299
Signed: Sean Felton
Report Date: 23 Oct 2023



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GRAPHS

