



CONSTRUCTION EQUIPMENT

SWA581369 VOLVO A25G 752863 - DIESEL ENGINE



Sample No: VCP440194
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA581369



SAMPLE INFORMATION

Sample Number	VCP440194	---	---	---
Sample Date	10 Jun 2024	---	---	---
Machine Hours	1324	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 11.7	---	---	---
Base Number (BN)	mg KOH/g	■ 7.1	---	---	---
Oxidation (PA)	%	72	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Exhaust valve wear is indicated. Sodium and/or potassium levels are high. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. Test for glycol is negative. 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 %	%	■ 0.3	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	■ 0.0	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	▲ 30	---	---	---
Sodium	ppm	■ 19	---	---	---
Potassium	ppm	▲ 70	---	---	---



WEAR METALS

Iron	ppm	■ 20	---	---	---
Copper	ppm	■ 214	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 67	---	---	---
Nickel	ppm	▲ 7	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2066	---	---	---
Magnesium	ppm	■ 294	---	---	---
Zinc	ppm	■ 1180	---	---	---
Phosphorus	ppm	■ 990	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 24	---	---	---

Depot: VOLVO0095
Unique No: 11074835
Signed: Jonathan Hester
Report Date: 18 Jun 2024



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GRAPHS

