



CONSTRUCTION EQUIPMENT

565037 VOLVO A45G 353312 - DIESEL ENGINE



Sample No: VCP454838
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 565037



SAMPLE INFORMATION

Sample Number	VCP454838	VCP396469	---	---
Sample Date	23 May 2024	07 Nov 2023	---	---
Machine Hours	2980	2546	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.4	■ 12.8	---	---
Base Number (BN)	mg KOH/g	■ 9.5	■ 5.8	---	---
Oxidation (PA)	%	75	74	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.3	■ 0.9	---	---
Nitration (PA)	%	62	87	---	---
Sulfation (PA)	%	60	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.3	<1.0	---	---
Silicon	ppm	■ 6	■ 8	---	---
Sodium	ppm	■ 3	■ 5	---	---
Potassium	ppm	■ 1	■ 0	---	---

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. Valve wear is indicated. All other 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.

WEAR METALS

Iron	ppm	■ 10	■ 24	---	---
Copper	ppm	■ 26	■ 30	---	---
Lead	ppm	■ 1	■ 2	---	---
Tin	ppm	■ 1	■ 2	---	---
Aluminum	ppm	■ 2	■ 1	---	---
Chromium	ppm	■ 1	■ <1	---	---
Molybdenum	ppm	■ 47	■ 66	---	---
Nickel	ppm	▲ 8	■ 4	---	---
Titanium	ppm	■ <1	0	---	---
Silver	ppm	■ 1	■ 0	---	---
Manganese	ppm	■ 1	■ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	■ 1574	■ 1215	---	---
Magnesium	ppm	■ 541	■ 900	---	---
Zinc	ppm	■ 1087	■ 1256	---	---
Phosphorus	ppm	■ 953	■ 961	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 44	■ <1	---	---

Depot: VOLVO0090
Unique No: 11050427
Signed: Don Baldrige
Report Date: 31 May 2024



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GRAPHS

