



CONSTRUCTION EQUIPMENT

BECKNER VOLVO A25G 752540 - DIESEL ENGINE



Sample No: VCP429240
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: BECKNER



SAMPLE INFORMATION

Sample Number	VCP429240	---	---	---
Sample Date	26 Sep 2023	---	---	---
Machine Hours	1036	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 5.6	---	---	---
Oxidation (PA)	%	■ 64	---	---	---



CONTAMINATION

Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	■ 82	---	---	---
Sulfation (PA)	%	■ 60	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.6	---	---	---
Silicon	ppm	▲ 65	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 27	---	---	---
Copper	ppm	▲ 217	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 85	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	■ <1	---	---	---



ADDITIVES

Calcium	ppm	■ 2130	---	---	---
Magnesium	ppm	■ 206	---	---	---
Zinc	ppm	■ 1287	---	---	---
Phosphorus	ppm	■ 1041	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 12	---	---	---

Diagnosis

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 component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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: 10675056
Signed: Don Baldrige
Report Date: 06 Oct 2023



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GRAPHS

