



CONSTRUCTION EQUIPMENT

W0230588 VOLVO A40G 752092 - DIESEL ENGINE



Sample No: VCP429422
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W0230588



SAMPLE INFORMATION

Sample Number	VCP429422	---	---	---
Sample Date	15 May 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	735	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 10.4	---	---	---
Base Number (BN)	mg KOH/g	■ 5.0	---	---	---
Oxidation (PA)	%	■ 56	---	---	---

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. All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of dirt/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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 77	---	---	---
Sulfation (PA)	%	■ 58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.4	---	---	---
Silicon	ppm	▲ 26	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 20	---	---	---
Copper	ppm	■ 162	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 80	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 2367	---	---	---
Magnesium	ppm	■ 18	---	---	---
Zinc	ppm	■ 1199	---	---	---
Phosphorus	ppm	■ 989	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 62	---	---	---

Depot: VOLVO0081
Unique No: 11042541
Signed: Don Baldrige
Report Date: 24 May 2024



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GRAPHS

