



CONSTRUCTION EQUIPMENT

VOLVO A25G 752606 - DIESEL ENGINE



Sample No: VCP407228
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP407228	---	---	---
Sample Date	21 Jul 2023	---	---	---
Machine Hours	493	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 6.3	---	---	---
Oxidation (PA)	%	■ 57	---	---	---



CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 74	---	---	---
Sulfation (PA)	%	■ 52	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 31	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 6	---	---	---



WEAR METALS

Iron	ppm	■ 18	---	---	---
Copper	ppm	▲ 203	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 74	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 2	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 2172	---	---	---
Magnesium	ppm	■ 46	---	---	---
Zinc	ppm	■ 1263	---	---	---
Phosphorus	ppm	■ 1037	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 56	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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. 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.

Depot: VOLVO8882
Unique No: 10603837
Signed: Jonathan Hester
Report Date: 16 Aug 2023



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GRAPHS

