



CONSTRUCTION EQUIPMENT

VOLVO A45G 752045 - A45G - DIESEL ENGINE



Sample No: VCP442649
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP442649	---	---	---
Sample Date	08 Jan 2024	---	---	---
Machine Hours	565	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 5.7	---	---	---
Oxidation (PA)	%	56	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 27	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 1	---	---	---



WEAR METALS

Iron	ppm	■ 24	---	---	---
Copper	ppm	▲ 403	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 82	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2009	---	---	---
Magnesium	ppm	13	---	---	---
Zinc	ppm	■ 1151	---	---	---
Phosphorus	ppm	■ 969	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 40	---	---	---

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: VOLVO0090
Unique No: 10822408
Signed: Jonathan Hester
Report Date: 12 Jan 2024



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GRAPHS

