



CONSTRUCTION EQUIPMENT

41862 VOLVO A45G 752153 - DIESEL ENGINE



Sample No: VCP444901
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 41862



SAMPLE INFORMATION

Sample Number	VCP444901	---	---	---
Sample Date	11 Apr 2024	---	---	---
Machine Hours	501	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

215 - ASCENDUM MACHINERY INC - CAYCE
 2303 AIRPORT BLVD
 CAYCE, SC
 US 29033
 Contact: TAMI BROWDER



OIL CONDITION

Visc @ 100°C	cSt	● 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 5.5	---	---	---
Oxidation (PA)	%	■ 59	---	---	---

T: (803)923-2138
 F: (803)791-9920

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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	■ 79	---	---	---
Sulfation (PA)	%	■ 55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	■ 32	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 26	---	---	---
Copper	ppm	▲ 402	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 7	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 99	---	---	---
Nickel	ppm	■ 6	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2504	---	---	---
Magnesium	ppm	■ 36	---	---	---
Zinc	ppm	■ 1274	---	---	---
Phosphorus	ppm	■ 1104	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 38	---	---	---

Depot: VOLVO0013
Unique No: 10978446
Signed: Jonathan Hester
Report Date: 19 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

