



CONSTRUCTION EQUIPMENT

SWO067072 VOLVO A25G 742272 - DIESEL ENGINE



Sample No: VCP415327
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO067072



SAMPLE INFORMATION

Sample Number	VCP415327	VCP408554	VCP369849	---
Sample Date	27 Oct 2023	09 Jun 2023	10 Feb 2023	---
Machine Hours	6239	5780	5326	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.5	▲ 10.5	▲ 10.5	---
Base Number (BN)	mg KOH/g	■ 8.6	■ 9.3	■ 9.7	---
Oxidation (PA)	%	74	80	74	---



CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	54	54	57	---
Sulfation (PA)	%	56	59	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 7.4	▲ 8.3	▲ 7.4	---
Silicon	ppm	■ 4	■ 4	■ 5	---
Sodium	ppm	■ 3	■ 3	■ 2	---
Potassium	ppm	■ <1	■ 2	■ 0	---



WEAR METALS

Iron	ppm	■ 1	■ 4	■ 5	---
Copper	ppm	■ 1	■ 0	■ <1	---
Lead	ppm	■ 0	■ 0	■ <1	---
Tin	ppm	■ 0	■ <1	■ <1	---
Aluminum	ppm	■ 2	■ 2	■ <1	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 36	■ 40	■ 40	---
Nickel	ppm	■ <1	■ <1	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1501	■ 1573	■ 1589	---
Magnesium	ppm	■ 496	■ 482	■ 466	---
Zinc	ppm	■ 969	■ 986	■ 1022	---
Phosphorus	ppm	■ 804	■ 829	■ 843	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 42	■ 53	■ 55	---

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: SAIBIR
Unique No: 10722509
Signed: Jonathan Hester
Report Date: 03 Nov 2023



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GRAPHS

