



CONSTRUCTION EQUIPMENT

634785 VOLVO A40G 752073 - DIESEL ENGINE



Sample No: VCP433435
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634785



SAMPLE INFORMATION

Sample Number	VCP433435	---	---	---
Sample Date	30 Nov 2023	---	---	---
Machine Hours	527	---	---	---
Oil Hours	527	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rtturner@ripatampa.com



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 5.4	---	---	---
Oxidation (PA)	%	56	---	---	---

T:
F:

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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 %	%	■ 0.2	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 30	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 5	---	---	---



WEAR METALS

Iron	ppm	■ 17	---	---	---
Copper	ppm	■ 281	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 84	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2132	---	---	---
Magnesium	ppm	61	---	---	---
Zinc	ppm	■ 1233	---	---	---
Phosphorus	ppm	■ 1048	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 32	---	---	---

Depot: RIPTAM
Unique No: 10833705
Signed: Don Baldrige
Report Date: 19 Jan 2024



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GRAPHS

