



CONSTRUCTION EQUIPMENT

922 VOLVO A45G 353333 - DIESEL ENGINE



Sample No: VCP424192
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 922



SAMPLE INFORMATION

Sample Number	VCP424192	---	---	---
Sample Date	07 Sep 2023	---	---	---
Machine Hours	1461	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
 Contact: RAY KRANZUSCH
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 8.2	---	---	---
Oxidation (PA)	%	■ 69	---	---	---

Diagnosis

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. 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

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 66	---	---	---
Sulfation (PA)	%	■ 56	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 1.6	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 0	---	---	---



WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 64	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 52	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 1547	---	---	---
Magnesium	ppm	■ 644	---	---	---
Zinc	ppm	■ 1100	---	---	---
Phosphorus	ppm	■ 855	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 37	---	---	---

Depot: VOLVO4485
Unique No: 10655760
Signed: Don Baldrige
Report Date: 20 Sep 2023



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GRAPHS

