



CONSTRUCTION EQUIPMENT

VOLVO A45G 353273 - DIESEL ENGINE



Sample No: VCP426566
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP426566	---	---	---
Sample Date	24 Aug 2023	---	---	---
Machine Hours	1911	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 8.5	---	---	---
Oxidation (PA)	%	72	---	---	---

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. Light fuel dilution occurring. No other contaminants were detected 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.



CONTAMINATION

Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.4	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 15	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 45	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1673	---	---	---
Magnesium	ppm	■ 516	---	---	---
Zinc	ppm	■ 1145	---	---	---
Phosphorus	ppm	■ 909	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 27	---	---	---

Depot: VOLVO0090
Unique No: 10629136
Signed: Don Baldrige
Report Date: 01 Sep 2023



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GRAPHS

