



CONSTRUCTION EQUIPMENT

VOLVO A45G 353134 - DIESEL ENGINE



Sample No: VCP426567
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP426567	---	---	---
Sample Date	01 Sep 2023	---	---	---
Machine Hours	1286	---	---	---
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	■ 7.4	---	---	---
Oxidation (PA)	%	74	---	---	---



CONTAMINATION

Soot %	%	■ 0.5	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 4.4	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 1	---	---	---

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. Valve wear is indicated. All other component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



WEAR METALS

Iron	ppm	■ 18	---	---	---
Copper	ppm	■ 101	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 57	---	---	---
Nickel	ppm	▲ 10	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1871	---	---	---
Magnesium	ppm	■ 441	---	---	---
Zinc	ppm	■ 1131	---	---	---
Phosphorus	ppm	■ 899	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 27	---	---	---

Depot: VOLVO0090
Unique No: 10642233
Signed: Don Baldrige
Report Date: 12 Sep 2023



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GRAPHS

