



CONSTRUCTION EQUIPMENT

456125-30 VOLVO A45G 342711 - DIESEL ENGINE



Sample No: VCP454833
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 456125-30



SAMPLE INFORMATION

Sample Number	VCP454833	VCP356213	---	---
Sample Date	13 May 2024	22 Mar 2022	---	---
Machine Hours	6298	3643	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 5.5	█ 8.3	---	---
Oxidation (PA)	%	73	88	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Valve wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 1.2	█ 1	---	---
Nitration (PA)	%	93	93	---	---
Sulfation (PA)	%	71	70	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 12	█ 5	---	---
Sodium	ppm	▲ 379	█ 2	---	---
Potassium	ppm	▲ 73	█ 0	---	---



WEAR METALS

Iron	ppm	█ 41	█ 21	---	---
Copper	ppm	█ 8	█ 15	---	---
Lead	ppm	█ 8	█ 2	---	---
Tin	ppm	█ 2	█ 1	---	---
Aluminum	ppm	█ 11	█ 8	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 70	█ 47	---	---
Nickel	ppm	▲ 5	█ 1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1202	█ 1638	---	---
Magnesium	ppm	█ 862	█ 467	---	---
Zinc	ppm	█ 1243	█ 979	---	---
Phosphorus	ppm	█ 1077	█ 803	---	---
Barium	ppm	█ <1	█ 0	---	---
Boron	ppm	█ <1	█ 15	---	---

Depot: VOLVO0095
Unique No: 11031027
Signed: Jonathan Hester
Report Date: 17 May 2024



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GRAPHS

