



CONSTRUCTION EQUIPMENT

VOLVO A25G 752571 - DIESEL ENGINE



Sample No: VCP443314
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443314	VCP430704	---	---
Sample Date	29 May 2024	24 Aug 2023	---	---
Machine Hours	1522	1011	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.4	■ 12.8	---	---
Base Number (BN)	mg KOH/g	■ 8.7	■ 8.3	---	---
Oxidation (PA)	%	75	56	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Valve wear is indicated. Tests indicate that there is no fuel present in the oil. 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	NEG	---	---
Soot %	%	■ 0.2	■ 0.2	---	---
Nitration (PA)	%	65	58	---	---
Sulfation (PA)	%	59	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.3	<1.0	---	---
Silicon	ppm	■ 4	■ 7	---	---
Sodium	ppm	■ 1	■ 2	---	---
Potassium	ppm	■ 2	■ 0	---	---



WEAR METALS

Iron	ppm	■ 12	■ 11	---	---
Copper	ppm	■ 84	▲ 143	---	---
Lead	ppm	■ 0	■ 1	---	---
Tin	ppm	■ 1	■ <1	---	---
Aluminum	ppm	■ 1	■ 1	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 52	■ 64	---	---
Nickel	ppm	▲ 4	■ <1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	■ <1	■ <1	---	---
Manganese	ppm	■ 1	■ 2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	■ 1474	■ 1275	---	---
Magnesium	ppm	658	■ 881	---	---
Zinc	ppm	■ 1212	■ 1239	---	---
Phosphorus	ppm	■ 1056	■ 1055	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 20	■ 3	---	---

Depot: VOLVO0090
Unique No: 11059526
Signed: Sean Felton
Report Date: 05 Jun 2024



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GRAPHS

