



CONSTRUCTION EQUIPMENT

VOLVO A45G 352747 - DIESEL ENGINE



Sample No: VCP436141
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP436141	VCP433575	---	---
Sample Date	16 Feb 2024	25 Sep 2023	---	---
Machine Hours	1406	795	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 10.7	---	---
Base Number (BN)	mg KOH/g	■ 8.9	■ 7.3	---	---
Oxidation (PA)	%	82	63	---	---

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. 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	■ 0.5	---	---
Nitration (PA)	%	64	60	---	---
Sulfation (PA)	%	62	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	■ 9	■ 34	---	---
Sodium	ppm	■ 8	■ 2	---	---
Potassium	ppm	■ 0	■ <1	---	---



WEAR METALS

Iron	ppm	■ 16	■ 36	---	---
Copper	ppm	■ 32	■ 147	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 1	■ 5	---	---
Aluminum	ppm	■ 3	■ 6	---	---
Chromium	ppm	■ <1	■ 1	---	---
Molybdenum	ppm	■ 53	■ 62	---	---
Nickel	ppm	■ 7	▲ 12	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1743	■ 1735	---	---
Magnesium	ppm	■ 522	■ 400	---	---
Zinc	ppm	■ 1188	■ 1239	---	---
Phosphorus	ppm	■ 981	■ 1016	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 36	■ 84	---	---

Depot: VOLVO0090
Unique No: 10887547
Signed: Don Baldrige
Report Date: 22 Feb 2024



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GRAPHS

