



CONSTRUCTION EQUIPMENT

- DIESEL ENGINE



Sample No: VCP437301
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437301	VCP378456	---	---
Sample Date	18 Apr 2024	06 Aug 2022	---	---
Machine Hours	3094	653	---	---
Oil Hours	0	1500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	MARGINAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	● 10.4	---	---
Base Number (BN)	mg KOH/g	■ 8.1	■ 6.2	---	---
Oxidation (PA)	%	79	73	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.1	---	---
Nitration (PA)	%	73	91	---	---
Sulfation (PA)	%	60	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.5	---	---
Silicon	ppm	■ 19	■ 26	---	---
Sodium	ppm	■ 5	■ 3	---	---
Potassium	ppm	■ 0	■ 3	---	---



WEAR METALS

Iron	ppm	■ 9	■ 13	---	---
Copper	ppm	■ 2	▲ 189	---	---
Lead	ppm	■ 0	■ 1	---	---
Tin	ppm	■ 1	■ 3	---	---
Aluminum	ppm	■ 1	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 50	■ 80	---	---
Nickel	ppm	■ 3	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ <1	■ 4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1565	■ 2138	---	---
Magnesium	ppm	■ 628	81	---	---
Zinc	ppm	■ 1118	■ 1189	---	---
Phosphorus	ppm	■ 965	■ 941	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 17	■ 12	---	---

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.

Depot: VOLVO0090
Unique No: 10992776
Signed: Jonathan Hester
Report Date: 25 Apr 2024



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GRAPHS

