



CONSTRUCTION EQUIPMENT

332993-20 CLEAN EART VOLVO A30G 742136 - DIESEL ENGINE



Sample No: VCP424025
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 332993-20 CLEAN EART



SAMPLE INFORMATION

Sample Number	VCP424025	VCP363221	VCP321754	---
Sample Date	26 Sep 2023	29 Jul 2022	31 Jan 2022	---
Machine Hours	5090	3492	3001	---
Oil Hours	0	500	250	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	▲ 11.6	▲ 12.1	---
Base Number (BN)	mg KOH/g	■ 9.1	■ 10.6	■ 10.8	---
Oxidation (PA)	%	83	87	84	---

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

Soot %	%	■ 0.3	■ 0.2	■ 0.1	---
Nitration (PA)	%	63	66	59	---
Sulfation (PA)	%	61	65	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 1.7	---
Silicon	ppm	■ 6	■ 3	■ 7	---
Sodium	ppm	■ 2	■ 1	■ 2	---
Potassium	ppm	■ <1	■ <1	■ 0	---



WEAR METALS

Iron	ppm	■ 4	■ 5	■ 5	---
Copper	ppm	■ 0	■ <1	■ <1	---
Lead	ppm	■ <1	■ <1	■ <1	---
Tin	ppm	■ <1	■ <1	■ <1	---
Aluminum	ppm	■ <1	■ 1	■ 1	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 40	■ 37	■ 32	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	0	2	■ 12	---
Silver	ppm	■ 0	<1	0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1713	■ 1605	■ 1753	---
Magnesium	ppm	■ 524	■ 452	■ 470	---
Zinc	ppm	■ 1161	■ 1082	■ 1055	---
Phosphorus	ppm	■ 938	■ 902	■ 962	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 42	■ 56	■ 52	---

Depot: VOLVO0142
Unique No: 10669727
Signed: Sean Felton
Report Date: 29 Sep 2023



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GRAPHS

