



CONSTRUCTION EQUIPMENT

VOLVO EC300EL 314178 - DIESEL ENGINE



Sample No: VCP436829
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP436829	VCP437752	VCP350797	---
Sample Date	12 Jul 2024	11 Apr 2024	24 Feb 2022	---
Machine Hours	2843	2342	336	---
Oil Hours	0	0	336	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.0	12.6	---
Base Number (BN)	mg KOH/g	10.3	9.2	8.1	---
Oxidation (PA)	%	81	81	42	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.1	---
Nitration (PA)	%	63	75	62	---
Sulfation (PA)	%	61	58	49	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	9	17	---
Sodium	ppm	3	10	3	---
Potassium	ppm	29	19	10	---



WEAR METALS

Iron	ppm	9	18	23	---
Copper	ppm	<1	4	11	---
Lead	ppm	0	1	3	---
Tin	ppm	0	2	2	---
Aluminum	ppm	▲ 12	▲ 12	▲ 37	---
Chromium	ppm	<1	1	3	---
Molybdenum	ppm	40	54	2	---
Nickel	ppm	0	1	5	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	1	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1746	1846	2094	---
Magnesium	ppm	539	631	289	---
Zinc	ppm	1092	1243	1156	---
Phosphorus	ppm	936	1050	1043	---
Barium	ppm	<1	0	0	---
Boron	ppm	28	28	10	---

Depot: VOLVO0090
Unique No: 11124277
Signed: Sean Felton
Report Date: 15 Jul 2024



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GRAPHS

