



CONSTRUCTION EQUIPMENT

VOLVO EC300EL 314178 - DIESEL ENGINE



Sample No: VCP437752
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

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

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	█ 12.6	---	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 8.1	---	---
Oxidation (PA)	%	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 has decreased, but is still 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	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	75	62	---	---
Sulfation (PA)	%	58	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 17	---	---
Sodium	ppm	█ 10	█ 3	---	---
Potassium	ppm	█ 19	█ 10	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 1846	█ 2094	---	---
Magnesium	ppm	█ 631	█ 289	---	---
Zinc	ppm	█ 1243	█ 1156	---	---
Phosphorus	ppm	█ 1050	█ 1043	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 28	█ 10	---	---

Depot: VOLVO0090
Unique No: 10978451
Signed: Sean Felton
Report Date: 17 Apr 2024



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GRAPHS

