



CONSTRUCTION EQUIPMENT

W06005745 RVRA VOLVO ECR235E 310937 - DIESEL ENGINE



Sample No: VCP411502
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W06005745 RVRA



SAMPLE INFORMATION

Sample Number	VCP411502	VCE141937	---	---
Sample Date	06 Dec 2023	20 Jul 2018	---	---
Machine Hours	6363	534	---	---
Oil Hours	0	534	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 9.1	■ 13.5	---	---
Base Number (BN)	mg KOH/g	■ 8.2	---	---	---
Oxidation (PA)	%	57	■ 64	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. No other contaminants were detected 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	■ 0.1	---	---
Nitration (PA)	%	60	■ 50	---	---
Sulfation (PA)	%	53	■ 55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 1.2	<1.0	---	---
Silicon	ppm	■ 12	■ 26	---	---
Sodium	ppm	■ 4	■ 4	---	---
Potassium	ppm	■ 0	■ <1	---	---



WEAR METALS

Iron	ppm	■ 15	■ 55	---	---
Copper	ppm	■ 4	■ 9	---	---
Lead	ppm	■ 0	■ 1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 3	■ 17	---	---
Chromium	ppm	■ 1	■ 3	---	---
Molybdenum	ppm	■ 22	■ 2	---	---
Nickel	ppm	■ 0	■ 10	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ <1	■ 5	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 972	■ 2323	---	---
Magnesium	ppm	■ 679	68	---	---
Zinc	ppm	■ 1308	■ 1169	---	---
Phosphorus	ppm	■ 1068	■ 936	---	---
Barium	ppm	■ 0	■ <1	---	---
Boron	ppm	■ 15	■ 3	---	---

Depot: VOLVO9010
Unique No: 10781931
Signed: Doug Bogart
Report Date: 18 Dec 2023



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GRAPHS

