



CONSTRUCTION EQUIPMENT

S50402613 SEG 1 VOLVO ECR235EL 315102 - DIESEL ENGINE



Sample No: VCP414911
Oil Type: VOLVO
Job No: S50402613 SEG 1



SAMPLE INFORMATION

Sample Number	VCP414911	VCP412799	VCP375444	---
Sample Date	31 Jan 2024	01 Aug 2023	05 Aug 2022	---
Machine Hours	1578	0	615	---
Oil Hours	500	0	615	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

ADVANTAGE DEMOLITION/GRADING
18669 VAN NESS AVE
TORRANCE, CA
US 90504
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	12.3	▲ 10.4	■ 13.2	---
Base Number (BN)	mg KOH/g	■ 8.3	■ 5.5	■ 6.6	---
Oxidation (PA)	%	115	69	68	---

T:
F:

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All 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 %	%	■ 0.1	■ 0.1	■ 0.2	---
Nitration (PA)	%	84	74	79	---
Sulfation (PA)	%	67	57	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	■ 0.8	<1.0	---
Silicon	ppm	■ 6	▲ 29	■ 12	---
Sodium	ppm	■ 3	■ 5	■ 3	---
Potassium	ppm	■ 0	■ 4	■ 2	---



WEAR METALS

Iron	ppm	■ 10	■ 13	■ 29	---
Copper	ppm	■ 3	▲ 189	■ 13	---
Lead	ppm	■ 2	■ 3	■ 2	---
Tin	ppm	■ 2	■ 3	■ 3	---
Aluminum	ppm	■ 4	■ 3	■ 5	---
Chromium	ppm	■ 1	■ <1	■ 2	---
Molybdenum	ppm	■ 44	■ 78	■ 7	---
Nickel	ppm	■ <1	■ <1	■ 8	---
Titanium	ppm	<1	■ <1	■ <1	---
Silver	ppm	■ 0	■ 0	0	---
Manganese	ppm	<1	■ 3	■ 3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 1686	■ 2073	■ 2309	---
Magnesium	ppm	■ 507	■ 180	■ 199	---
Zinc	ppm	■ 1098	■ 1210	■ 1161	---
Phosphorus	ppm	■ 953	■ 980	■ 945	---
Barium	ppm	■ <1	■ 0	■ <1	---
Boron	ppm	■ 23	■ 51	■ 14	---

Depot: ADVTOR
Unique No: 10859450
Signed: Don Baldrige
Report Date: 04 Feb 2024



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GRAPHS

