



CONSTRUCTION EQUIPMENT

SW1034049 BLACONES VOLVO ECR235E 315062 - DIESEL ENGINE



Sample No: VCP437207
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1034049 BLACONES



SAMPLE INFORMATION

Sample Number	VCP437207	VCP441001	---	---
Sample Date	07 May 2024	10 Nov 2023	---	---
Machine Hours	2878	1052	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 6.4	---	---
Oxidation (PA)	%	91	60	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.2	---	---
Nitration (PA)	%	63	65	---	---
Sulfation (PA)	%	64	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 26	█ 14	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 3	█ 4	---	---

WEAR METALS

Iron	ppm	█ 22	█ 38	---	---
Copper	ppm	█ 13	█ 11	---	---
Lead	ppm	█ 5	█ <1	---	---
Tin	ppm	█ 4	█ 4	---	---
Aluminum	ppm	● 13	█ 7	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 54	█ 25	---	---
Nickel	ppm	█ <1	█ 8	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1319	█ 2174	---	---
Magnesium	ppm	█ 709	█ 276	---	---
Zinc	ppm	█ 1154	█ 1198	---	---
Phosphorus	ppm	█ 1003	█ 973	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 14	█ 59	---	---

Depot: VOLVO6174
Unique No: 11022489
Signed: Sean Felton
Report Date: 14 May 2024



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GRAPHS

