



CONSTRUCTION EQUIPMENT

607001 VOLVO EC380 315097 - DIESEL ENGINE



Sample No: VCP431337
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607001



SAMPLE INFORMATION

Sample Number	VCP431337	VCP402967	VCP366139	---
Sample Date	27 Sep 2023	13 May 2023	19 Sep 2022	---
Machine Hours	1815	1256	645	---
Oil Hours	500	0	645	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---

BLAZE CONSTRUCTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	▲ 11.6	▲ 10.2	---
Base Number (BN)	mg KOH/g	■ 7.9	■ 6.7	■ 6.4	---
Oxidation (PA)	%	62	63	73	---

Diagnosis

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. There is no indication of any contamination 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

Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	68	73	92	---
Sulfation (PA)	%	54	57	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.9	---
Silicon	ppm	■ 6	■ 6	■ 23	---
Sodium	ppm	■ 1	■ <1	■ 4	---
Potassium	ppm	■ 0	■ 2	■ 3	---

WEAR METALS

Iron	ppm	■ 6	■ 7	■ 12	---
Copper	ppm	■ 21	▲ 124	▲ 249	---
Lead	ppm	■ <1	■ <1	■ 4	---
Tin	ppm	■ <1	■ 1	■ 3	---
Aluminum	ppm	■ 0	■ <1	■ 1	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 62	■ 59	■ 69	---
Nickel	ppm	■ 0	■ <1	■ 0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	■ 0	■ 0	0	---
Manganese	ppm	■ <1	■ 1	■ 3	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	■ 1106	■ 1157	■ 2136	---
Magnesium	ppm	■ 1010	■ 793	■ 150	---
Zinc	ppm	■ 1280	■ 1167	■ 1180	---
Phosphorus	ppm	■ 1016	■ 968	■ 937	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 0	■ 5	■ 26	---

Depot: BLADET
Unique No: 10674117
Signed: Don Baldrige
Report Date: 05 Oct 2023



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GRAPHS

