



CONSTRUCTION EQUIPMENT

621896 ALTA RENTS VOLVO EC480E 315143 - DIESEL ENGINE



Sample No: VCP440718
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621896 ALTA RENTS



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SAMPLE INFORMATION

Sample Number	VCP440718	VCP412216	VCP411666	---
Sample Date	31 Oct 2023	15 Aug 2023	07 Jun 2023	---
Machine Hours	1550	1031	587	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 12.0	▲ 10.9	---
Base Number (BN)	mg KOH/g	■ 8.2	■ 8.0	■ 5.6	---
Oxidation (PA)	%	76	78	68	---

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	68	69	92	---
Sulfation (PA)	%	59	61	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.8	---
Silicon	ppm	■ 9	■ 10	■ 24	---
Sodium	ppm	■ 0	■ 2	■ 4	---
Potassium	ppm	■ 1	■ <1	■ 2	---

WEAR METALS

Iron	ppm	■ 7	■ 7	■ 13	---
Copper	ppm	■ 22	■ 124	■ 228	---
Lead	ppm	■ 0	■ 0	■ 2	---
Tin	ppm	■ <1	■ 1	■ 2	---
Aluminum	ppm	■ <1	■ 2	■ <1	---
Chromium	ppm	■ <1	■ <1	■ 0	---
Molybdenum	ppm	■ 54	■ 46	■ 85	---
Nickel	ppm	■ 0	■ 0	■ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ 0	■ <1	■ 2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	■ 1483	■ 1780	■ 2302	---
Magnesium	ppm	■ 627	■ 473	22	---
Zinc	ppm	■ 1156	■ 1160	■ 1100	---
Phosphorus	ppm	■ 926	■ 931	■ 912	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 12	■ 23	■ 13	---

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.

Depot: VOLVO0096
Unique No: 10724894
Signed: Sean Felton
Report Date: 03 Nov 2023



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GRAPHS

