



CONSTRUCTION EQUIPMENT

453037 WATERFRONT PR VOLVO EC380 315096 - DIESEL ENGINE



Sample No: VCP441893
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 453037 WATERFRONT PR



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SAMPLE INFORMATION

Sample Number	VCP441893	VCP416065	---	---
Sample Date	16 Jan 2024	18 Aug 2023	---	---
Machine Hours	2415	1825	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 11.6	---	---
Base Number (BN)	mg KOH/g	■ 9.4	■ 7.1	---	---
Oxidation (PA)	%	79	63	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	67	63	---	---
Sulfation (PA)	%	59	55	---	---
Glycol	%	NEG	■ 0.0	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	■ 6	■ 6	---	---
Sodium	ppm	■ 2	■ 0	---	---
Potassium	ppm	■ <1	■ 2	---	---

WEAR METALS

Iron	ppm	■ 4	■ 7	---	---
Copper	ppm	■ 13	■ 49	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ 1	---	---
Aluminum	ppm	■ 1	■ <1	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 44	■ 62	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 1605	■ 1288	---	---
Magnesium	ppm	■ 562	■ 849	---	---
Zinc	ppm	■ 1166	■ 1265	---	---
Phosphorus	ppm	■ 995	■ 1031	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 23	■ 7	---	---

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: VOLVO0093
Unique No: 10834658
Signed: Don Baldrige
Report Date: 19 Jan 2024



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GRAPHS

