



CONSTRUCTION EQUIPMENT

463363-10 WATERFRONT VOLVO A40G 342355 - DIESEL ENGINE



Sample No: VCP449058
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 463363-10 WATERFRONT



SAMPLE INFORMATION

Sample Number	VCP449058	VCP302590	VCP284506	---
Sample Date	02 Jan 2024	21 Jan 2021	03 Sep 2020	---
Machine Hours	7884	5098	4547	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	■ 12.8	■ 12.6	---
Base Number (BN)	mg KOH/g	■ 9.3	---	---	---
Oxidation (PA)	%	76	73	84	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Exhaust valve wear is indicated. Fuel content negligible. No other contaminants were detected 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

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.2	■ 0.3	■ 0.5	---
Nitration (PA)	%	58	70	87	---
Sulfation (PA)	%	60	67	73	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 0.7	<1.0	<1.0	---
Silicon	ppm	■ 7	■ 6	■ 6	---
Sodium	ppm	■ 0	■ 2	■ 3	---
Potassium	ppm	■ 2	■ 0	■ 0	---



WEAR METALS

Iron	ppm	■ 16	■ 9	■ 18	---
Copper	ppm	■ 6	■ 2	■ 4	---
Lead	ppm	■ 2	■ 5	■ 3	---
Tin	ppm	■ 1	■ 0	■ 0	---
Aluminum	ppm	■ 12	■ 6	■ 5	---
Chromium	ppm	■ 1	■ <1	■ <1	---
Molybdenum	ppm	■ 47	■ 120	■ 108	---
Nickel	ppm	▲ 7	■ 2	■ 4	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	■ 0	0	<1	---
Manganese	ppm	■ 2	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	■ 1528	■ 1741	■ 1654	---
Magnesium	ppm	■ 517	■ 737	■ 594	---
Zinc	ppm	■ 1152	■ 886	■ 837	---
Phosphorus	ppm	■ 868	768	688	---
Barium	ppm	■ 1	■ 0	■ 0	---
Boron	ppm	■ 32	■ 245	■ 30	---

Depot: VOLVO0093
Unique No: 10844823
Signed: Sean Felton
Report Date: 25 Jan 2024



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GRAPHS

