



# CONSTRUCTION EQUIPMENT

462431 WATERFRONT VOLVO A40G 342619 - DIESEL ENGINE



**Sample No:** VCP441731  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 462431 WATERFRONT



## SAMPLE INFORMATION

Sample Number	VCP441731	VCP426678	---	---
Sample Date	10 Feb 2024	12 Aug 2023	---	---
Machine Hours	7777	7325	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.3	▲ 12.2	---	---
Base Number (BN)	mg KOH/g	█ 9.3	█ 5.3	---	---
Oxidation (PA)	%	79	96	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.4	---	---
Nitration (PA)	%	63	93	---	---
Sulfation (PA)	%	61	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 0.9	▲ 3.1	---	---
Silicon	ppm	█ 5	█ 7	---	---
Sodium	ppm	█ 0	█ 5	---	---
Potassium	ppm	█ 2	█ 1	---	---



## WEAR METALS

Iron	ppm	█ 14	█ 25	---	---
Copper	ppm	█ 8	█ 12	---	---
Lead	ppm	█ 0	█ 1	---	---
Tin	ppm	█ 0	█ 1	---	---
Aluminum	ppm	█ 8	█ 12	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 57	█ 41	---	---
Nickel	ppm	█ 3	█ 9	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 1606	█ 1633	---	---
Magnesium	ppm	█ 503	█ 510	---	---
Zinc	ppm	█ 1096	█ 1108	---	---
Phosphorus	ppm	█ 869	█ 817	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 44	█ 8	---	---

**Depot:** VOLVO0093  
**Unique No:** 10874469  
**Signed:** Doug Bogart  
**Report Date:** 15 Feb 2024



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## GRAPHS

