



# CONSTRUCTION EQUIPMENT

54612 BARNS CONSTRUC VOLVO EC480EL 315182 - DIESEL ENGINE



**Sample No:** VCP453896  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 54612 BARNS CONSTRUC



## SAMPLE INFORMATION

Sample Number	VCP453896	VCP185862	---	---
Sample Date	10 Jun 2024	31 Mar 2015	---	---
Machine Hours	982	11787	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	MARGINAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	● 10.8	▲ 12.07	---	---
Base Number (BN)	mg KOH/g	■ 4.2	---	---	---
Oxidation (PA)	%	■ 80	■ 48	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	■ 93	■ 42	---	---
Sulfation (PA)	%	■ 67	■ 44	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.9	<1.0	---	---
Silicon	ppm	■ 16	■ 3	---	---
Sodium	ppm	■ 3	■ 25	---	---
Potassium	ppm	■ 3	■ 2	---	---



## WEAR METALS

Iron	ppm	■ 16	■ 2	---	---
Copper	ppm	■ 171	■ 2	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 2	■ 0	---	---
Aluminum	ppm	■ 3	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 72	■ 4	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	0	■ 66	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ 3	■ <1	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	■ 2229	■ 1829	---	---
Magnesium	ppm	■ 45	■ 199	---	---
Zinc	ppm	■ 1175	■ 1058	---	---
Phosphorus	ppm	■ 1008	■ 883	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 14	94	---	---

**Depot:** VOLVO0005  
**Unique No:** 11084101  
**Signed:** Sean Felton  
**Report Date:** 19 Jun 2024



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## GRAPHS

