



# CONSTRUCTION EQUIPMENT

X17862 APAC VOLVO EC480EL 314911 - DIESEL ENGINE



**Sample No:** VCP431695  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X17862 APAC



## SAMPLE INFORMATION

Sample Number	VCP431695	---	---	---
Sample Date	04 Oct 2023	---	---	---
Machine Hours	3348	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	---	---	---
Base Number (BN)	mg KOH/g	■ 8.4	---	---	---
Oxidation (PA)	%	81	---	---	---

## CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.9	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 0	---	---	---

## WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 40	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	■ 1575	---	---	---
Magnesium	ppm	■ 461	---	---	---
Zinc	ppm	■ 992	---	---	---
Phosphorus	ppm	■ 829	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 20	---	---	---

## Diagnosis

We advise that you check the fuel injection system. 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. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** VOLVO8771  
**Unique No:** 10696496  
**Signed:** Don Baldrige  
**Report Date:** 17 Oct 2023



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## GRAPHS

