



# CONSTRUCTION EQUIPMENT

D12383 VOLVO EC480E 3 10665 - DIESEL ENGINE



**Sample No:** VCP360490  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** D12383



## SAMPLE INFORMATION

Sample Number	VCP360490	VCP418673	---	---
Sample Date	19 Aug 2023	11 Jul 2023	---	---
Machine Hours	7352	6971	---	---
Oil Hours	456	125	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

**A F GELHAR CO INC**  
 PO BOX 126  
 MARKESAN, WI  
 US 53946  
 Contact: SERVICE MANAGER

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 12.6	---	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 10.4	---	---
Oxidation (PA)	%	80	82	---	---

T: (920)398-3566  
 F:

## Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	60	53	---	---
Sulfation (PA)	%	60	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.5	---	---
Silicon	ppm	█ 8	█ 7	---	---
Sodium	ppm	█ 48	█ 21	---	---
Potassium	ppm	█ 2	█ <1	---	---

## WEAR METALS

Iron	ppm	█ 16	█ 13	---	---
Copper	ppm	█ 3	█ 4	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 0	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 42	█ 39	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---

## ADDITIVES

Calcium	ppm	█ 1763	█ 1790	---	---
Magnesium	ppm	█ 507	█ 510	---	---
Zinc	ppm	█ 1184	█ 1166	---	---
Phosphorus	ppm	█ 979	█ 957	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 30	█ 48	---	---

**Depot:** AFGMAR  
**Unique No:** 10618335  
**Signed:** Wes Davis  
**Report Date:** 24 Aug 2023



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## GRAPHS

