



# CONSTRUCTION EQUIPMENT

487803 RENTALS VOLVO EC480EL 315167 - DIESEL ENGINE



**Sample No:** VCP454102  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 487803 RENTALS



## SAMPLE INFORMATION

Sample Number	<b>VCP454102</b>	VCP428731	VCP415608	---
Sample Date	<b>16 Feb 2024</b>	19 Dec 2023	01 Jun 2023	---
Machine Hours	<b>2238</b>	1494	518	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	N/A	Changed	---
Sample Status	<b>ATTENTION</b>	ATTENTION	NORMAL	---

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
 9601 BOGGY CREEK RD  
 ORLANDO, FL  
 US 32824  
 Contact: Robert LaPlante  
 robert.laplante@altg.com  
 T: (407)508-9736  
 F: (407)659-8720



## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.7</b>	▲ 12.1	■ 12.1	---
Base Number (BN)	mg KOH/g	<b>■ 9.1</b>	■ 7.0	■ 5.5	---
Oxidation (PA)	%	<b>81</b>	66	54	---

## Diagnosis

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. There is no indication of any contamination 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	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.1	---
Nitration (PA)	%	<b>66</b>	69	64	---
Sulfation (PA)	%	<b>60</b>	56	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 0.4	---
Silicon	ppm	<b>■ 8</b>	■ 10	■ 27	---
Sodium	ppm	<b>■ 0</b>	■ 2	■ 2	---
Potassium	ppm	<b>■ 1</b>	■ 0	■ <1	---



## WEAR METALS

Iron	ppm	<b>■ 6</b>	■ 6	■ 15	---
Copper	ppm	<b>■ 4</b>	■ 17	■ 208	---
Lead	ppm	<b>■ 0</b>	■ 0	■ 1	---
Tin	ppm	<b>■ 0</b>	■ <1	■ 2	---
Aluminum	ppm	<b>■ 2</b>	■ <1	■ 2	---
Chromium	ppm	<b>■ &lt;1</b>	■ 0	■ <1	---
Molybdenum	ppm	<b>■ 44</b>	■ 56	■ 26	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ <1	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	---
Manganese	ppm	<b>■ 0</b>	■ <1	■ 3	---
Vanadium	ppm	<b>0</b>	<1	<1	---



## ADDITIVES

Calcium	ppm	<b>■ 1429</b>	■ 1167	■ 2266	---
Magnesium	ppm	<b>■ 524</b>	■ 865	57	---
Zinc	ppm	<b>■ 1049</b>	■ 1214	■ 1079	---
Phosphorus	ppm	<b>■ 801</b>	■ 1002	■ 901	---
Barium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 25</b>	■ 8	■ 2	---

**Depot:** VOLVO0096  
**Unique No:** 10888092  
**Signed:** Jonathan Hester  
**Report Date:** 23 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

