



# CONSTRUCTION EQUIPMENT

## 25862 CAROLINA WASTE VOLVO EC220EL 310568 - DIESEL ENGINE



**Sample No:** VCP453789  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 25862 CAROLINA WASTE



### SAMPLE INFORMATION

Sample Number	VCP453789	VCP263283	---	---
Sample Date	04 Jun 2024	18 Nov 2019	---	---
Machine Hours	11622	5252	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	NORMAL	---	---

218 - ASCENDUM MACHINERY INC - N. CHARLESTON  
 7235 CROSS COUNTRY RD.  
 NORTH CHARLESTON, SC  
 US 29418  
 Contact: MATT MITCHAM  
 matt.mitcham@ascendummachinery.com  
 T:  
 F: (843)414-1129



### OIL CONDITION

Visc @ 100°C	cSt	● 9.5	■ 14.4	---	---
Base Number (BN)	mg KOH/g	▲ 3.2	---	---	---
Oxidation (PA)	%	84	48	---	---

### Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. The BN level is low. Confirm oil type.



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0	---	---
Nitration (PA)	%	60	45	---	---
Sulfation (PA)	%	73	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.9	<1.0	---	---
Silicon	ppm	■ 6	■ 5	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 4	■ 3	---	---



### WEAR METALS

Iron	ppm	■ 12	■ 2	---	---
Copper	ppm	■ 2	■ <1	---	---
Lead	ppm	■ <1	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 2	■ <1	---	---
Chromium	ppm	■ 1	■ 0	---	---
Molybdenum	ppm	■ 14	■ 6	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ <1	<1	---	---
Vanadium	ppm	<1	0	---	---



### ADDITIVES

Calcium	ppm	● 914	■ 1132	---	---
Magnesium	ppm	■ 356	■ 565	---	---
Zinc	ppm	● 738	■ 638	---	---
Phosphorus	ppm	● 614	■ 581	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 17	■ 74	---	---

**Depot:** VOLVO3387  
**Unique No:** 11074837  
**Signed:** Jonathan Hester  
**Report Date:** 18 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

