

## **CONSTRUCTION EQUIPMENT**

SW0068187 A2 LAND VOLVO EC350EL 314549 - DIESEL ENGINE



Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SWO068187 A2 LAND

VOLVO					
CAMDI F II	NFORMATION				
	MI ORMATION	VCD4200FF	_		
Sample Number		VCP430855			
Sample Date		08 Dec 2023			
Machine Hours		1449			
Oil Hours		0			
Oil Changed		Changed			
Sample Status		SEVERE			
VOLVO					
OIL CONDITION					
Visc @ 100°C	cSt	● 8.4			
Base Number (BN)	mg KOH/g	<b>7.6</b>			
Oxidation (PA)	%	64			
CONTAMINATION					
Water	%	NEG			
Soot %	%	■0.1			
Nitration (PA)	%	65			
Sulfation (PA)	%	53			
Glycol	%	NEG			
Fuel	%	13.7			
Silicon	ppm	<b>7</b>			
Sodium		0			
Potassium	ppm	<b>2</b>			
	ppm				
VOLVO					
WEAR METALS					
Iron	ppm	<b>5</b>			
Copper	ppm	<u> </u>			
Lead	ppm	<b>■ &lt;1</b>			
Tin	ppm	<b>1</b>			
Aluminum	ppm	<b>1</b>			
Chromium	ppm	<b>■&lt;1</b>			
Molybdenum	ppm	<b>71</b>			
Nickel	ppm	<b>■&lt;1</b>			
Titanium	ppm	<1			
Silver	ppm	■0			
Manganese	ppm	<b>■ &lt;1</b>			
Vanadium	ppm	0			
ADDITIVE	7				
		=4242			
Calcium	ppm	■ 1312 ■ 162			
Magnesium	ppm	<b>462</b>			



## **COWIN EQUIPMENT COMPANY**

7950 PITTMAN AVE
PENSACOLA, FL
US 32534
Contact: HUGH DOBBS
HDOBBS@COWIN.COM
T: (850)479-3004
F: (850)474-1602

## Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The copper level is abnormal. All other component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO8247
Unique No: 10782839
Signed: Jonathan Hester
Report Date: 21 Dec 2023

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus

817

659

**11** 

**61** 



## **CONSTRUCTION EQUIPMENT**





