



# CONSTRUCTION EQUIPMENT

## VOLVO ECR235EL 314118 - DIESEL ENGINE



**Sample No:** VCP0008109

**Oil Type:** DIESEL ENGINE OIL SAE 15W40

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0008109</b>	VCP300139	---	---
Sample Date	<b>09 Nov 2023</b>	12 May 2021	---	---
Machine Hours	<b>522</b>	522	---	---
Oil Hours	<b>522</b>	522	---	---
Oil Changed	<b>N/A</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	13.7	---	---
Base Number (BN)	mg KOH/g	<b>9.7</b>	---	---	---
Oxidation (PA)	%	<b>54</b>	62	---	---



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>47</b>	65	---	---
Sulfation (PA)	%	<b>49</b>	56	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>6</b>	10	---	---
Sodium	ppm	<b>0</b>	3	---	---
Potassium	ppm	<b>1</b>	3	---	---

### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. 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.



### WEAR METALS

Iron	ppm	<b>27</b>	17	---	---
Copper	ppm	<b>0</b>	7	---	---
Lead	ppm	<b>2</b>	<1	---	---
Tin	ppm	<b>&lt;1</b>	2	---	---
Aluminum	ppm	<b>3</b>	8	---	---
Chromium	ppm	<b>&lt;1</b>	1	---	---
Molybdenum	ppm	<b>61</b>	15	---	---
Nickel	ppm	<b>&lt;1</b>	6	---	---
Titanium	ppm	<b>0</b>	<1	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>&lt;1</b>	3	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>1049</b>	1996	---	---
Magnesium	ppm	<b>944</b>	215	---	---
Zinc	ppm	<b>1288</b>	1015	---	---
Phosphorus	ppm	<b>1065</b>	916	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>21</b>	5	---	---

**Depot:** VOLVO0092  
**Unique No:** 10739043  
**Signed:** Doug Bogart  
**Report Date:** 13 Nov 2023



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## GRAPHS

