



# CONSTRUCTION EQUIPMENT

## 3560 FCL VOLVO ECR235E 315257 - DIESEL ENGINE



**Sample No:** VCP439152  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 3560 FCL



### SAMPLE INFORMATION

Sample Number	<b>VCP439152</b>	VCP421854	VCP422059	---
Sample Date	<b>06 Feb 2024</b>	06 Sep 2023	24 May 2023	---
Machine Hours	<b>2716</b>	2117	1569	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	12.9	13.1	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.5	8.7	---
Oxidation (PA)	%	<b>91</b>	82	55	---

### 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

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0.2	0.2	---
Nitration (PA)	%	<b>78</b>	72	75	---
Sulfation (PA)	%	<b>63</b>	60	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	9	11	---
Sodium	ppm	<b>2</b>	2	0	---
Potassium	ppm	<b>0</b>	0	3	---



### WEAR METALS

Iron	ppm	<b>19</b>	34	102	---
Copper	ppm	<b>&lt;1</b>	2	9	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>3</b>	<1	4	---
Chromium	ppm	<b>&lt;1</b>	1	2	---
Molybdenum	ppm	<b>44</b>	45	31	---
Nickel	ppm	<b>0</b>	<1	6	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	4	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>1741</b>	2022	2727	---
Magnesium	ppm	<b>558</b>	564	426	---
Zinc	ppm	<b>1159</b>	1241	1211	---
Phosphorus	ppm	<b>989</b>	994	973	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>31</b>	23	0	---

**Depot:** VOLVO0096  
**Unique No:** 10873267  
**Signed:** Wes Davis  
**Report Date:** 13 Feb 2024



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## GRAPHS

