



# CONSTRUCTION EQUIPMENT

## 25209 VOLVO ECR58 11473 - DIESEL ENGINE



**Sample No:** VCP455196  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 25209



### SAMPLE INFORMATION

Sample Number	<b>VCP455196</b>	VCP410315	VCP399725	---
Sample Date	<b>20 Mar 2024</b>	05 May 2023	06 Feb 2023	---
Machine Hours	<b>1191</b>	700	474	---
Oil Hours	<b>0</b>	1000	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>10.9</b>	13.0	11.5	---
Base Number (BN)	mg KOH/g	<b>10.3</b>	10.9	9.2	---
Oxidation (PA)	%	<b>64</b>	82	60	---

### 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. Fuel content negligible. 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>0.3</b>	0.1	0.3	---
Nitration (PA)	%	<b>63</b>	52	64	---
Sulfation (PA)	%	<b>55</b>	61	52	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>0.7</b>	<1.0	0.6	---
Silicon	ppm	<b>7</b>	5	11	---
Sodium	ppm	<b>5</b>	3	4	---
Potassium	ppm	<b>2</b>	<1	3	---



### WEAR METALS

Iron	ppm	<b>14</b>	6	25	---
Copper	ppm	<b>&lt;1</b>	1	17	---
Lead	ppm	<b>&lt;1</b>	0	0	---
Tin	ppm	<b>&lt;1</b>	0	<1	---
Aluminum	ppm	<b>4</b>	0	3	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>25</b>	41	52	---
Nickel	ppm	<b>&lt;1</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	3	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2506</b>	1661	1404	---
Magnesium	ppm	<b>331</b>	522	766	---
Zinc	ppm	<b>1230</b>	1126	1173	---
Phosphorus	ppm	<b>1011</b>	948	945	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>57</b>	58	5	---

**Depot:** OLTNOR  
**Unique No:** 10943217  
**Signed:** Don Baldrige  
**Report Date:** 28 Mar 2024



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## GRAPHS

