



# CONSTRUCTION EQUIPMENT

## X59040 VOLVO EC220EL 314850 - DIESEL ENGINE



**Sample No:** VCP427300  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** X59040



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### SAMPLE INFORMATION

Sample Number	<b>VCP427300</b>	VCP367336	VCP386015	---
Sample Date	<b>22 Dec 2023</b>	14 Jun 2023	20 Jan 2023	---
Machine Hours	<b>1735</b>	983	427	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	13.1	13.6	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.9	6.8	---
Oxidation (PA)	%	<b>82</b>	79	40	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>65</b>	63	62	---
Sulfation (PA)	%	<b>61</b>	61	49	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	6	13	---
Sodium	ppm	<b>2</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	1	3	---

### WEAR METALS

Iron	ppm	<b>55</b>	47	64	---
Copper	ppm	<b>2</b>	1	8	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>2</b>	3	3	---
Chromium	ppm	<b>1</b>	1	2	---
Molybdenum	ppm	<b>43</b>	39	6	---
Nickel	ppm	<b>&lt;1</b>	2	5	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>1</b>	1	4	---
Vanadium	ppm	<b>0</b>	<1	<1	---

### ADDITIVES

Calcium	ppm	<b>1623</b>	1748	2216	---
Magnesium	ppm	<b>589</b>	530	86	---
Zinc	ppm	<b>1187</b>	1197	967	---
Phosphorus	ppm	<b>981</b>	949	797	---
Barium	ppm	<b>0</b>	0	3	---
Boron	ppm	<b>19</b>	22	2	---

### 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.

**Depot:** SCOSAI  
**Unique No:** 10809271  
**Signed:** Wes Davis  
**Report Date:** 03 Jan 2024



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## GRAPHS

