



# CONSTRUCTION EQUIPMENT

## X48132 VOLVO EC220E 315204 - DIESEL ENGINE



**Sample No:** VCP452484  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X48132



### SAMPLE INFORMATION

Sample Number	<b>VCP452484</b>	VCP450959	VCP430439	---
Sample Date	<b>07 May 2024</b>	02 May 2024	29 Feb 2024	---
Machine Hours	<b>1714</b>	2138	1960	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	N/A	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.7	12.6	---
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.3	9.7	---
Oxidation (PA)	%	<b>88</b>	81	85	---

### 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>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>65</b>	50	58	---
Sulfation (PA)	%	<b>62</b>	60	63	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>10</b>	8	7	---
Sodium	ppm	<b>4</b>	<1	<1	---
Potassium	ppm	<b>4</b>	0	0	---



### WEAR METALS

Iron	ppm	<b>11</b>	12	4	---
Copper	ppm	<b>3</b>	0	0	---
Lead	ppm	<b>2</b>	0	0	---
Tin	ppm	<b>3</b>	<1	<1	---
Aluminum	ppm	<b>5</b>	2	1	---
Chromium	ppm	<b>3</b>	<1	0	---
Molybdenum	ppm	<b>42</b>	41	37	---
Nickel	ppm	<b>3</b>	0	0	---
Titanium	ppm	<b>2</b>	0	0	---
Silver	ppm	<b>3</b>	0	0	---
Manganese	ppm	<b>3</b>	<1	0	---
Vanadium	ppm	<b>2</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1724</b>	1763	1659	---
Magnesium	ppm	<b>498</b>	523	506	---
Zinc	ppm	<b>1098</b>	1122	1122	---
Phosphorus	ppm	<b>937</b>	948	964	---
Barium	ppm	<b>1</b>	<1	1	---
Boron	ppm	<b>37</b>	57	42	---

**Depot:** CDLHER  
**Unique No:** 11033692  
**Signed:** Don Baldrige  
**Report Date:** 20 May 2024



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## GRAPHS

