



# CONSTRUCTION EQUIPMENT

SVC053895 VOLVO EC220E 3 10730 - DIESEL ENGINE



**Sample No:** VCP436473  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SVC053895



## SAMPLE INFORMATION

Sample Number	<b>VCP436473</b>	VCP370206	VCP244451	---
Sample Date	<b>30 Apr 2024</b>	24 Apr 2023	26 Jul 2019	---
Machine Hours	<b>2333</b>	2282	595	---
Oil Hours	<b>0</b>	0	595	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	14.4	13.6	---
Base Number (BN)	mg KOH/g	<b>10.5</b>	9.9	---	---
Oxidation (PA)	%	<b>76</b>	42	68	---

## 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>46</b>	58	67	---
Sulfation (PA)	%	<b>60</b>	42	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>10</b>	6	19	---
Sodium	ppm	<b>2</b>	1	<1	---
Potassium	ppm	<b>2</b>	1	3	---



## WEAR METALS

Iron	ppm	<b>30</b>	16	23	---
Copper	ppm	<b>1</b>	0	13	---
Lead	ppm	<b>0</b>	0	1	---
Tin	ppm	<b>&lt;1</b>	0	1	---
Aluminum	ppm	<b>4</b>	2	12	---
Chromium	ppm	<b>&lt;1</b>	0	2	---
Molybdenum	ppm	<b>50</b>	110	31	---
Nickel	ppm	<b>&lt;1</b>	0	6	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	4	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1616</b>	3152	2156	---
Magnesium	ppm	<b>471</b>	307	114	---
Zinc	ppm	<b>1058</b>	1333	1088	---
Phosphorus	ppm	<b>919</b>	1106	906	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>63</b>	50	8	---

**Depot:** VOLVO0005  
**Unique No:** 11015859  
**Signed:** Wes Davis  
**Report Date:** 07 May 2024



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## GRAPHS

