



# CONSTRUCTION EQUIPMENT

## 24745 VOLVO EC300E 311876 - DIESEL ENGINE



**Sample No:** VCP440962  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24745



### SAMPLE INFORMATION

Sample Number	<b>VCP440962</b>	VCP416524	VCP388293	VCP358205
Sample Date	<b>05 Jan 2024</b>	20 Jun 2023	13 Dec 2022	30 Aug 2022
Machine Hours	<b>6600</b>	6086	5659	5141
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.8	13.1	13.4
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.8	8.0	11.4
Oxidation (PA)	%	<b>83</b>	83	83	86

### 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. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.5	0.2
Nitration (PA)	%	<b>58</b>	57	106	68
Sulfation (PA)	%	<b>61</b>	62	63	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.4</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>12</b>	9	9	9
Sodium	ppm	<b>2</b>	0	0	3
Potassium	ppm	<b>&lt;1</b>	3	5	5



### WEAR METALS

Iron	ppm	<b>9</b>	7	9	10
Copper	ppm	<b>2</b>	2	2	4
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	2	5	5
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>50</b>	45	43	42
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	<1



### ADDITIVES

Calcium	ppm	<b>1679</b>	1715	1787	1563
Magnesium	ppm	<b>536</b>	496	503	521
Zinc	ppm	<b>1152</b>	1101	1118	970
Phosphorus	ppm	<b>957</b>	941	935	775
Barium	ppm	<b>0</b>	0	<1	2
Boron	ppm	<b>45</b>	61	41	33

**Depot:** SAIBIR  
**Unique No:** 10836845  
**Signed:** Sean Felton  
**Report Date:** 23 Jan 2024

**VOLVO** GRAPHS

