



# CONSTRUCTION EQUIPMENT

## SWA584249-10 VOLVO EC300E 314225 - DIESEL ENGINE



**Sample No:** VCP429951  
**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40  
**Job No:** SWA584249-10



### SAMPLE INFORMATION

Sample Number	<b>VCP429951</b>	VCP407432	VCP407416	VCP374143
Sample Date	<b>14 Jun 2024</b>	07 Sep 2023	19 Jun 2023	10 Jun 2022
Machine Hours	<b>6470</b>	4869	4288	2242
Oil Hours	<b>500</b>	0	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### DENALI WE CARE

400 TORNE RD  
HILLBURN, NY  
US 10931  
Contact: Service Manager



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.7	12.9	13.1
Base Number (BN)	mg KOH/g	<b>10.4</b>	10.2	10.3	11.0
Oxidation (PA)	%	<b>83</b>	83	86	88

T:  
F:

### 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	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	58	63	63
Sulfation (PA)	%	<b>62</b>	61	61	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	7	6	6
Sodium	ppm	<b>2</b>	3	2	3
Potassium	ppm	<b>1</b>	7	1	7



### WEAR METALS

Iron	ppm	<b>6</b>	6	6	8
Copper	ppm	<b>2</b>	3	2	4
Lead	ppm	<b>0</b>	<1	<1	1
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	4	1	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	43	42	41
Nickel	ppm	<b>0</b>	0	0	1
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1886</b>	1967	1856	1696
Magnesium	ppm	<b>542</b>	566	561	496
Zinc	ppm	<b>1231</b>	1247	1230	1187
Phosphorus	ppm	<b>1035</b>	1005	968	959
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>40</b>	38	48	49

**Depot:** DENHIL  
**Unique No:** 11090615  
**Signed:** Wes Davis  
**Report Date:** 25 Jun 2024



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## GRAPHS

