



# CONSTRUCTION EQUIPMENT

## 581770 CENTRAL SITE VOLVO EC350 310468 - DIESEL ENGINE



**Sample No:** VCP417634  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 581770 CENTRAL SITE



### SAMPLE INFORMATION

Sample Number	<b>VCP417634</b>	VCP385148	VCP344402	VCP310926
Sample Date	<b>03 Aug 2023</b>	15 Nov 2022	22 Oct 2021	31 Mar 2021
Machine Hours	<b>7007</b>	6545	5193	4577
Oil Hours	<b>500</b>	500	1500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.2</b>	█ 13.0	▲ 12.4	█ 12.1
Base Number (BN)	mg KOH/g	█ <b>9.3</b>	█ 10.3	---	---
Oxidation (PA)	%	<b>79</b>	93	79	83

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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

Soot %	%	█ <b>0.1</b>	█ 0.4	█ 0.1	█ 0.1
Nitration (PA)	%	<b>62</b>	84	72	72
Sulfation (PA)	%	<b>58</b>	66	59	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	█ <b>0.7</b>	<1.0	█ 0.7	<1.0
Silicon	ppm	█ <b>5</b>	█ 7	█ 6	█ 6
Sodium	ppm	█ <b>4</b>	█ 2	█ 2	█ 2
Potassium	ppm	█ <b>0</b>	█ 2	█ 0	█ <1



### WEAR METALS

Iron	ppm	█ <b>4</b>	█ 13	█ 5	█ 5
Copper	ppm	█ <b>2</b>	█ 5	█ 5	█ 4
Lead	ppm	█ <b>0</b>	█ <1	█ 1	█ <1
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Aluminum	ppm	█ <b>0</b>	█ <1	█ 1	█ 0
Chromium	ppm	█ <b>0</b>	█ <1	█ <1	█ <1
Molybdenum	ppm	█ <b>60</b>	█ 40	█ 54	█ 41
Nickel	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	█ <b>0</b>	█ 0	0	0
Manganese	ppm	█ <b>0</b>	█ <1	█ <1	█ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	█ <b>1712</b>	█ 1715	█ 1673	█ 1511
Magnesium	ppm	█ <b>500</b>	█ 469	█ 407	█ 448
Zinc	ppm	█ <b>1114</b>	█ 1084	█ 1043	█ 993
Phosphorus	ppm	█ <b>904</b>	█ 910	█ 894	█ 875
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>38</b>	█ 18	█ 31	█ 29

**Depot:** VOLVO0093  
**Unique No:** 10619899  
**Signed:** Wes Davis  
**Report Date:** 29 Aug 2023



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## VOLVO GRAPHS

