



# CONSTRUCTION EQUIPMENT

## SPM594830 SEMINOLE C VOLVO EC350E 314333 - DIESEL ENGINE



**Sample No:** VCP415613  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM594830 SEMINOLE C



### SAMPLE INFORMATION

Sample Number	<b>VCP415613</b>	VCP406880	VCP369896	VCP363869
Sample Date	<b>21 Aug 2023</b>	28 Apr 2023	13 Dec 2022	29 Aug 2022
Machine Hours	<b>2047</b>	1516	1042	630
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	ABNORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.4	12.4	▲ 10.57
Base Number (BN)	mg KOH/g	<b>8.7</b>	7.9	9.3	5.8
Oxidation (PA)	%	<b>82</b>	81	80	71

### 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

Soot %	%	<b>0.1</b>	0.1	0.4	0.1
Nitration (PA)	%	<b>64</b>	63	84	90
Sulfation (PA)	%	<b>60</b>	58	61	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	8	24
Sodium	ppm	<b>3</b>	2	0	2
Potassium	ppm	<b>0</b>	0	2	4



### WEAR METALS

Iron	ppm	<b>5</b>	4	6	13
Copper	ppm	<b>4</b>	13	▲ 91	▲ 273
Lead	ppm	<b>&lt;1</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	<1	1	3
Aluminum	ppm	<b>&lt;1</b>	<1	2	4
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>45</b>	39	50	84
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	3
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1839</b>	1614	1859	2029
Magnesium	ppm	<b>534</b>	463	465	28
Zinc	ppm	<b>1136</b>	1005	1142	1101
Phosphorus	ppm	<b>949</b>	805	938	908
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>32</b>	38	29	31

**Depot:** VOLVO0093  
**Unique No:** 10621110  
**Signed:** Wes Davis  
**Report Date:** 28 Aug 2023



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## GRAPHS

