



# CONSTRUCTION EQUIPMENT

## SWA508892 TC MOBILE VOLVO EC220E 314443 - DIESEL ENGINE



**Sample No:** VCP369593  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA508892 TC MOBILE



### SAMPLE INFORMATION

Sample Number	<b>VCP369593</b>	VCP417382	VCP405682	VCP376522
Sample Date	<b>21 Mar 2024</b>	08 Sep 2023	25 Apr 2023	26 Aug 2022
Machine Hours	<b>4766</b>	4261	3763	2623
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### ALTA EQUIPMENT

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 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.7	13.7	14.1
Base Number (BN)	mg KOH/g	<b>8.9</b>	9.8	8.9	11.2
Oxidation (PA)	%	<b>77</b>	86	94	106

### 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>0.2</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>78</b>	78	83	91
Sulfation (PA)	%	<b>56</b>	62	63	71
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	9	7	7
Sodium	ppm	<b>1</b>	3	1	<1
Potassium	ppm	<b>0</b>	<1	0	1



### WEAR METALS

Iron	ppm	<b>18</b>	14	9	13
Copper	ppm	<b>&lt;1</b>	2	0	1
Lead	ppm	<b>0</b>	0	0	1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>3</b>	6	2	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>54</b>	41	36	47
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1334</b>	1760	1594	1767
Magnesium	ppm	<b>875</b>	676	494	523
Zinc	ppm	<b>1264</b>	1319	1088	1201
Phosphorus	ppm	<b>1058</b>	1068	831	994
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>9</b>	31	20	26

**Depot:** VOLVO0142  
**Unique No:** 10941518  
**Signed:** Wes Davis  
**Report Date:** 26 Mar 2024



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## VOLVO GRAPHS

