



# CONSTRUCTION EQUIPMENT

## TUCKER PAVING VOLVO ECR145EL 315117 - DIESEL ENGINE



**Sample No:** VCP432098  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** TUCKER PAVING



### SAMPLE INFORMATION

Sample Number	<b>VCP432098</b>	VCP415938	VCP390725	VCP374616
Sample Date	<b>26 Oct 2023</b>	13 Jun 2023	04 Nov 2022	10 Jun 2021
Machine Hours	<b>3320</b>	2978	2053	1521
Oil Hours	<b>0</b>	0	500	1500
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>12.0</b>	12.6	13.2	12.7
Base Number (BN)	mg KOH/g	<b>10.3</b>	10.4	12.2	12.0
Oxidation (PA)	%	<b>80</b>	84	88	81

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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>	0.3	0.3	0.2
Nitration (PA)	%	<b>63</b>	72	67	69
Sulfation (PA)	%	<b>59</b>	61	66	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.9</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	7
Sodium	ppm	<b>&lt;1</b>	2	0	2
Potassium	ppm	<b>1</b>	2	0	<1



### WEAR METALS

Iron	ppm	<b>8</b>	6	10	13
Copper	ppm	<b>3</b>	3	2	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	1
Aluminum	ppm	<b>2</b>	6	5	5
Chromium	ppm	<b>&lt;1</b>	0	1	1
Molybdenum	ppm	<b>43</b>	55	42	45
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1585</b>	1961	1736	1699
Magnesium	ppm	<b>458</b>	596	497	454
Zinc	ppm	<b>1022</b>	1303	1107	1129
Phosphorus	ppm	<b>821</b>	1093	911	928
Barium	ppm	<b>2</b>	12	0	0
Boron	ppm	<b>35</b>	34	35	36

**Depot:** VOLVO0093  
**Unique No:** 10776025  
**Signed:** Wes Davis  
**Report Date:** 12 Dec 2023



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## GRAPHS

