



# CONSTRUCTION EQUIPMENT

## 566115 TUCKER VOLVO EC380EL 314448 - DIESEL ENGINE



**Sample No:** VCP424861  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 566115 TUCKER



### SAMPLE INFORMATION

Sample Number	<b>VCP424861</b>	VCP398700	VCP353522	VCP349355
Sample Date	<b>12 Jun 2023</b>	24 Jan 2023	29 Aug 2022	12 Jan 2022
Machine Hours	<b>3267</b>	2612	2121	1186
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	MARGINAL

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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.5</b>	▲ 11.9	▲ 12.3	█ 12.7
Base Number (BN)	mg KOH/g	█ <b>10.5</b>	█ 9.2	█ 11.1	█ 10.3
Oxidation (PA)	%	<b>79</b>	78	88	88

### 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	█ 0.1	█ 0.1
Nitration (PA)	%	<b>56</b>	62	66	70
Sulfation (PA)	%	<b>60</b>	59	65	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	█ 0.9	<1.0
Silicon	ppm	█ <b>3</b>	█ 5	█ 3	█ 6
Sodium	ppm	█ <b>2</b>	█ 3	█ 2	█ 1
Potassium	ppm	█ <b>2</b>	█ 0	█ <1	█ 0



### WEAR METALS

Iron	ppm	█ <b>2</b>	█ 4	█ 3	█ 6
Copper	ppm	█ <b>&lt;1</b>	█ 3	█ 3	▲ 68
Lead	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ 1
Tin	ppm	█ <b>0</b>	█ 1	█ <1	█ 2
Aluminum	ppm	█ <b>2</b>	█ 1	█ 2	█ 1
Chromium	ppm	█ <b>0</b>	█ <1	█ <1	█ <1
Molybdenum	ppm	█ <b>39</b>	█ 41	█ 37	█ 37
Nickel	ppm	█ <b>&lt;1</b>	█ <1	█ 0	█ 0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Manganese	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	█ <b>1645</b>	█ 1612	█ 1617	█ 1818
Magnesium	ppm	█ <b>460</b>	█ 502	█ 471	█ 463
Zinc	ppm	█ <b>1005</b>	█ 1041	█ 1051	█ 1014
Phosphorus	ppm	█ <b>812</b>	█ 861	█ 866	█ 865
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>43</b>	█ 38	█ 36	█ 35

**Depot:** VOLVO0093  
**Unique No:** 10550569  
**Signed:** Wes Davis  
**Report Date:** 11 Jul 2023



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## GRAPHS

