



# CONSTRUCTION EQUIPMENT

## X48306 VOLVO EC380EL 311913 - DIESEL ENGINE



**Sample No:** VCP454738  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X48306



### SAMPLE INFORMATION

Sample Number	<b>VCP454738</b>	VCP452392	VCP439329	VCP341426
Sample Date	<b>21 Jun 2024</b>	08 May 2024	21 Mar 2024	23 Jun 2022
Machine Hours	<b>5993</b>	6192	6188	4252
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Not Changd	N/A	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**SCOTT EQUIPMENT COMPANY LLC - Lavergne**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.8	12.7	12.4
Base Number (BN)	mg KOH/g	<b>10.7</b>	11.0	9.3	10.7
Oxidation (PA)	%	<b>78</b>	76	81	86

### 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>0.1</b>	0.1	0.5	0.1
Nitration (PA)	%	<b>44</b>	42	66	61
Sulfation (PA)	%	<b>60</b>	60	63	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	3.5
Silicon	ppm	<b>5</b>	8	5	6
Sodium	ppm	<b>3</b>	2	2	2
Potassium	ppm	<b>2</b>	<1	0	0



### WEAR METALS

Iron	ppm	<b>&lt;1</b>	2	13	4
Copper	ppm	<b>2</b>	1	3	3
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	0	1
Aluminum	ppm	<b>2</b>	<1	1	1
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>39</b>	42	40	39
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	2
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1660</b>	1856	1750	1603
Magnesium	ppm	<b>497</b>	569	504	457
Zinc	ppm	<b>1156</b>	1206	1074	1049
Phosphorus	ppm	<b>933</b>	1018	917	853
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>63</b>	68	34	52

**Depot:** VOLV00129  
**Unique No:** 11098947  
**Signed:** Jonathan Hester  
**Report Date:** 26 Jun 2024



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## GRAPHS

