



# CONSTRUCTION EQUIPMENT

SPM580384 VOLVO EC480 314333 - DIESEL ENGINE



**Sample No:** VCP425088  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM580384



## SAMPLE INFORMATION

Sample Number	<b>VCP425088</b>	VCP373944	VCP377484	VCP336760
Sample Date	<b>17 Jul 2023</b>	08 Aug 2022	23 Apr 2022	16 Nov 2021
Machine Hours	<b>4033</b>	3256	2740	2161
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ORANGE COUNTY SOLID WASTE**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.0</b>	12.9	12.7	12.5
Base Number (BN)	mg KOH/g	<b>8.6</b>	10.0	9.8	---
Oxidation (PA)	%	<b>63</b>	92	94	87

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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>65</b>	78	77	72
Sulfation (PA)	%	<b>54</b>	66	68	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.6</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	8	7	8
Sodium	ppm	<b>3</b>	4	3	0
Potassium	ppm	<b>0</b>	0	<1	<1



## WEAR METALS

Iron	ppm	<b>3</b>	7	6	5
Copper	ppm	<b>3</b>	2	5	4
Lead	ppm	<b>0</b>	1	1	<1
Tin	ppm	<b>&lt;1</b>	2	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>62</b>	41	41	40
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	2	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1325</b>	1608	1822	1787
Magnesium	ppm	<b>937</b>	472	539	509
Zinc	ppm	<b>1267</b>	1029	1102	1097
Phosphorus	ppm	<b>1069</b>	812	957	961
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>6</b>	25	17	27

**Depot:** ORAORL  
**Unique No:** 10565415  
**Signed:** Wes Davis  
**Report Date:** 25 Jul 2023



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## GRAPHS

