



# CONSTRUCTION EQUIPMENT

8-379788 16-8113 - DIESEL ENGINE



**Sample No:** VCP430270  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 8-379788



## SAMPLE INFORMATION

Sample Number	<b>VCP430270</b>	VCP391584	VCP392084	VCP332580
Sample Date	<b>27 Sep 2023</b>	17 Jul 2023	19 Apr 2023	01 Nov 2022
Machine Hours	<b>6518</b>	6060	5495	5013
Oil Hours	<b>0</b>	0	0	1000
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL



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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	11.5	12.5	12.2
Oxidation (PA)	%	<b>80</b>	85	82	88



## CONTAMINATION

Soot %	%	<b>0</b>	0.1	0	0
Nitration (PA)	%	<b>59</b>	65	63	70
Sulfation (PA)	%	<b>62</b>	65	62	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	2.3	<1.0	2
Silicon	ppm	<b>6</b>	10	6	6
Sodium	ppm	<b>3</b>	3	2	2
Potassium	ppm	<b>1</b>	3	<1	2



## WEAR METALS

Iron	ppm	<b>11</b>	19	7	10
Copper	ppm	<b>1</b>	2	1	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	4	2	2
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>37</b>	35	40	39
Nickel	ppm	<b>1</b>	2	1	2
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1594</b>	1496	1767	1645
Magnesium	ppm	<b>462</b>	443	484	481
Zinc	ppm	<b>1010</b>	955	1065	1010
Phosphorus	ppm	<b>832</b>	878	993	927
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>29</b>	25	35	23

## 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 condition of the oil is acceptable for the time in service.

**Depot:** HOLCON  
**Unique No:** 5655716  
**Signed:** Wes Davis  
**Report Date:** 04 Oct 2023



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## GRAPHS

