



# CONSTRUCTION EQUIPMENT

W06005329 MARCUS COX VOLVO L70H 623833 - DIESEL ENGINE



**Sample No:** VCP417052  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** W06005329 MARCUS COX



## SAMPLE INFORMATION

Sample Number	<b>VCP417052</b>	VCP372788	VCP362087	VCP319637
Sample Date	<b>09 Jun 2023</b>	15 Aug 2022	14 Apr 2022	14 Dec 2021
Machine Hours	<b>3398</b>	2011	1512	916
Oil Hours	<b>500</b>	500	500	0
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>13.4</b>	13.2	13.5	13.0
Base Number (BN)	mg KOH/g	<b>5.8</b>	11.9	11.9	10.6
Oxidation (PA)	%	<b>74</b>	86	88	79

## 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>0.4</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>78</b>	61	63	63
Sulfation (PA)	%	<b>61</b>	65	65	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	5	10
Sodium	ppm	<b>2</b>	0	2	2
Potassium	ppm	<b>2</b>	1	0	<1



## WEAR METALS

Iron	ppm	<b>20</b>	10	14	24
Copper	ppm	<b>2</b>	1	2	3
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>6</b>	3	8	13
Chromium	ppm	<b>1</b>	<1	1	2
Molybdenum	ppm	<b>75</b>	40	34	36
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>2206</b>	1730	1742	1696
Magnesium	ppm	<b>183</b>	457	516	565
Zinc	ppm	<b>1230</b>	1075	1076	1110
Phosphorus	ppm	<b>951</b>	919	918	983
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>29</b>	43	47	59

**Depot:** VOLVO9010  
**Unique No:** 10520281  
**Signed:** Wes Davis  
**Report Date:** 16 Jun 2023



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## GRAPHS

