



# CONSTRUCTION EQUIPMENT

## D27139 VOLVO L70H 623025 - DIESEL ENGINE



**Sample No:** VCP381320  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** D27139



### SAMPLE INFORMATION

Sample Number	<b>VCP381320</b>	VCP395279	VCP391261	VCP329659
Sample Date	<b>17 May 2023</b>	15 Mar 2023	14 Dec 2022	06 Oct 2022
Machine Hours	<b>7425</b>	7200	6860	6619
Oil Hours	<b>500</b>	500	500	164
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.9</b>	█ 12.7	█ 13.0	█ 12.9
Base Number (BN)	mg KOH/g	█ <b>10.3</b>	█ 10.6	█ 12.0	█ 12.3
Oxidation (PA)	%	█ <b>83</b>	█ 81	█ 89	█ 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

Soot %	%	█ <b>0.2</b>	█ 0.2	█ 0.2	█ 0.1
Nitration (PA)	%	█ <b>75</b>	█ 58	█ 66	█ 55
Sulfation (PA)	%	█ <b>61</b>	█ 61	█ 66	█ 65
Glycol	%	█ <b>NEG</b>	█ NEG	█ NEG	█ NEG
Fuel	%	█ <b>&lt;1.0</b>	█ <1.0	█ <1.0	█ <1.0
Silicon	ppm	█ <b>6</b>	█ 6	█ 6	█ 6
Sodium	ppm	█ <b>0</b>	█ 2	█ 0	█ 1
Potassium	ppm	█ <b>2</b>	█ <1	█ <1	█ 1



### WEAR METALS

Iron	ppm	█ <b>8</b>	█ 2	█ 6	█ 5
Copper	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Lead	ppm	█ <b>0</b>	█ 0	█ 0	█ 1
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Aluminum	ppm	█ <b>1</b>	█ 2	█ <1	█ 2
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Molybdenum	ppm	█ <b>49</b>	█ 41	█ 42	█ 44
Nickel	ppm	█ <b>&lt;1</b>	█ <1	█ 0	█ 0
Titanium	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 0
Silver	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Manganese	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ <1
Vanadium	ppm	█ <b>0</b>	█ 0	█ 0	█ <1



### ADDITIVES

Calcium	ppm	█ <b>1909</b>	█ 1581	█ 1688	█ 1713
Magnesium	ppm	█ <b>522</b>	█ 464	█ 472	█ 503
Zinc	ppm	█ <b>1203</b>	█ 1035	█ 1064	█ 1137
Phosphorus	ppm	█ <b>1015</b>	█ 862	█ 897	█ 955
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>44</b>	█ 45	█ 35	█ 51

**Depot:** VOLVO0070  
**Unique No:** 10498424  
**Signed:** Wes Davis  
**Report Date:** 06 Jun 2023



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## GRAPHS

