



# CONSTRUCTION EQUIPMENT

## 593127 ATLAS ORGANIC VOLVO L70H 623753 - DIESEL ENGINE



**Sample No:** VCP454593  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 593127 ATLAS ORGANIC



### SAMPLE INFORMATION

Sample Number	<b>VCP454593</b>	VCP455073	VCP432903	VCP418336
Sample Date	<b>21 Jun 2024</b>	13 Mar 2024	21 Dec 2023	12 Sep 2023
Machine Hours	<b>9463</b>	8707	8081	7300
Oil Hours	<b>0</b>	0	0	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>	13.1	13.4	13.3
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.7	10.2	9.8
Oxidation (PA)	%	<b>84</b>	81	83	78

### 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>0.6</b>	0.4	0.6	0.5
Nitration (PA)	%	<b>68</b>	61	70	62
Sulfation (PA)	%	<b>63</b>	60	61	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	5	6
Sodium	ppm	<b>9</b>	32	2	2
Potassium	ppm	<b>2</b>	2	0	<1



### WEAR METALS

Iron	ppm	<b>9</b>	8	10	9
Copper	ppm	<b>&lt;1</b>	2	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>6</b>	6	7	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	42	49	49
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1740</b>	1681	1856	1640
Magnesium	ppm	<b>556</b>	498	592	482
Zinc	ppm	<b>1271</b>	1130	1266	1160
Phosphorus	ppm	<b>1009</b>	967	1053	944
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>19</b>	32	25	42

**Depot:** VOLVO0096  
**Unique No:** 11100181  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024



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## VOLVO GRAPHS

