



# CONSTRUCTION EQUIPMENT

## 728858 ATLAS ORGANIC VOLVO L120H 632572 - DIESEL ENGINE



**Sample No:** VCP440166  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 728858 ATLAS ORGANIC



### SAMPLE INFORMATION

Sample Number	<b>VCP440166</b>	VCP440611	VCP426245	---
Sample Date	<b>11 Jun 2024</b>	12 Dec 2023	27 Sep 2023	---
Machine Hours	<b>11039</b>	10483	9971	---
Oil Hours	<b>500</b>	500	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.6	14.0	---
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.4	9.0	---
Oxidation (PA)	%	<b>78</b>	82	61	---

### 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	---
Soot %	%	<b>0.6</b>	0.7	0.7	---
Nitration (PA)	%	<b>71</b>	75	73	---
Sulfation (PA)	%	<b>60</b>	61	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	6	5	---
Sodium	ppm	<b>3</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	<1	1	---



### WEAR METALS

Iron	ppm	<b>24</b>	18	19	---
Copper	ppm	<b>&lt;1</b>	<1	<1	---
Lead	ppm	<b>0</b>	0	2	---
Tin	ppm	<b>0</b>	<1	2	---
Aluminum	ppm	<b>17</b>	13	14	---
Chromium	ppm	<b>&lt;1</b>	<1	1	---
Molybdenum	ppm	<b>45</b>	43	63	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1698</b>	1723	1212	---
Magnesium	ppm	<b>586</b>	563	944	---
Zinc	ppm	<b>1163</b>	1121	1411	---
Phosphorus	ppm	<b>984</b>	960	1140	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>27</b>	22	3	---

**Depot:** VOLVO0093  
**Unique No:** 11126318  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2024



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## GRAPHS

