



# CONSTRUCTION EQUIPMENT

623711 ATLAS ORG VOLVO L70H 623711 - DIESEL ENGINE



**Sample No:** VCP443272  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 623711 ATLAS ORG



## SAMPLE INFORMATION

Sample Number	<b>VCP443272</b>	VCP418341	VCP415565	---
Sample Date	<b>06 Dec 2023</b>	12 Sep 2023	29 Jun 2023	---
Machine Hours	<b>9083</b>	8505	8029	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
 9601 BOGGY CREEK RD  
 ORLANDO, FL  
 US 32824  
 Contact: Robert LaPlante  
 robert.laplante@altg.com  
 T: (407)508-9736  
 F: (407)659-8720



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.3	14.4	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.7	6.6	---
Oxidation (PA)	%	<b>87</b>	82	84	---

## 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>0.5</b>	0.5	0.7	---
Nitration (PA)	%	<b>73</b>	68	85	---
Sulfation (PA)	%	<b>63</b>	62	70	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	8	6	---
Sodium	ppm	<b>0</b>	4	2	---
Potassium	ppm	<b>2</b>	<1	3	---



## WEAR METALS

Iron	ppm	<b>9</b>	12	15	---
Copper	ppm	<b>&lt;1</b>	1	2	---
Lead	ppm	<b>&lt;1</b>	<1	1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>3</b>	5	4	---
Chromium	ppm	<b>&lt;1</b>	1	<1	---
Molybdenum	ppm	<b>46</b>	70	101	---
Nickel	ppm	<b>&lt;1</b>	<1	0	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	<1	<1	---



## ADDITIVES

Calcium	ppm	<b>1678</b>	2347	1650	---
Magnesium	ppm	<b>526</b>	708	500	---
Zinc	ppm	<b>1128</b>	1620	1239	---
Phosphorus	ppm	<b>911</b>	1297	975	---
Barium	ppm	<b>11</b>	0	<1	---
Boron	ppm	<b>24</b>	37	127	---

**Depot:** VOLVO0096  
**Unique No:** 10782838  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023



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## GRAPHS

