



# CONSTRUCTION EQUIPMENT

SPM606742 ATLAS ORG VOLVO EC220E 314134 - DIESEL ENGINE



**Sample No:** VCP418339  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM606742 ATLAS ORG



## SAMPLE INFORMATION

Sample Number	<b>VCP418339</b>	VCP412979	---	---
Sample Date	<b>12 Sep 2023</b>	21 Jun 2023	---	---
Machine Hours	<b>7093</b>	6525	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>15.1</b>	14.9	---	---
Base Number (BN)	mg KOH/g	<b>7.6</b>	6.4	---	---
Oxidation (PA)	%	<b>106</b>	91	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. 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>0.3</b>	0.3	---	---
Nitration (PA)	%	<b>102</b>	87	---	---
Sulfation (PA)	%	<b>70</b>	72	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>10</b>	8	---	---
Sodium	ppm	<b>3</b>	0	---	---
Potassium	ppm	<b>1</b>	2	---	---



## WEAR METALS

Iron	ppm	<b>15</b>	14	---	---
Copper	ppm	<b>1</b>	1	---	---
Lead	ppm	<b>&lt;1</b>	<1	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>2</b>	2	---	---
Chromium	ppm	<b>1</b>	<1	---	---
Molybdenum	ppm	<b>68</b>	102	---	---
Nickel	ppm	<b>&lt;1</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>1826</b>	1541	---	---
Magnesium	ppm	<b>528</b>	417	---	---
Zinc	ppm	<b>1355</b>	1344	---	---
Phosphorus	ppm	<b>1067</b>	1113	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>50</b>	175	---	---

**Depot:** VOLVO0093  
**Unique No:** 10657341  
**Signed:** Angela Borella  
**Report Date:** 21 Sep 2023



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## GRAPHS

