



# CONSTRUCTION EQUIPMENT

## 602638 ATLANTIC TRAS VOLVO EC140 315666 - DIESEL ENGINE



**Sample No:** VCP439844  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 602638 ATLANTIC TRAS



### SAMPLE INFORMATION

Sample Number	<b>VCP439844</b>	VCP382575	VCP413409	---
Sample Date	<b>11 Jul 2024</b>	12 Dec 2023	20 Sep 2023	---
Machine Hours	<b>1514</b>	849	471	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	14.8	10.4	---
Base Number (BN)	mg KOH/g	<b>9.2</b>	9.2	6.5	---
Oxidation (PA)	%	<b>61</b>	53	41	---

### 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>0.3</b>	0.2	0.2	---
Nitration (PA)	%	<b>67</b>	48	57	---
Sulfation (PA)	%	<b>53</b>	48	47	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.3	---
Silicon	ppm	<b>8</b>	9	22	---
Sodium	ppm	<b>4</b>	<1	3	---
Potassium	ppm	<b>2</b>	2	1	---



### WEAR METALS

Iron	ppm	<b>11</b>	78	19	---
Copper	ppm	<b>9</b>	2	9	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>1</b>	<1	3	---
Aluminum	ppm	<b>5</b>	25	12	---
Chromium	ppm	<b>&lt;1</b>	2	2	---
Molybdenum	ppm	<b>61</b>	59	6	---
Nickel	ppm	<b>&lt;1</b>	1	6	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>2</b>	<1	4	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1104</b>	1036	2251	---
Magnesium	ppm	<b>957</b>	930	99	---
Zinc	ppm	<b>1270</b>	1195	1089	---
Phosphorus	ppm	<b>1052</b>	974	934	---
Barium	ppm	<b>0</b>	12	0	---
Boron	ppm	<b>3</b>	0	22	---

**Depot:** VOLVO0095  
**Unique No:** 11127598  
**Signed:** Sean Felton  
**Report Date:** 18 Jul 2024



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## GRAPHS

