



# CONSTRUCTION EQUIPMENT

S50401742 ATHENS VOLVO EW160E 323519 - DIESEL ENGINE



**Sample No:** VCP434542  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** S50401742 ATHENS



## SAMPLE INFORMATION

Sample Number	VCP434542	VCP400448	---	---
Sample Date	10 Oct 2023	23 Apr 2023	---	---
Machine Hours	5352	4125	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 22099 KNABE ROAD  
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 US 92883  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.2	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 9.4	█ 10.3	---	---
Oxidation (PA)	%	80	83	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	63	60	---	---
Sulfation (PA)	%	60	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 0.6	<1.0	---	---
Silicon	ppm	█ 8	█ 10	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 2	█ <1	---	---



## WEAR METALS

Iron	ppm	█ 5	█ 6	---	---
Copper	ppm	█ 2	█ 1	---	---
Lead	ppm	█ 1	█ 0	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ 2	█ <1	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 33	█ 44	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 1532	█ 1776	---	---
Magnesium	ppm	█ 493	█ 526	---	---
Zinc	ppm	█ 1042	█ 1161	---	---
Phosphorus	ppm	█ 910	█ 940	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 44	█ 35	---	---

**Depot:** VOLVO4486  
**Unique No:** 10724521  
**Signed:** Wes Davis  
**Report Date:** 06 Nov 2023



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## GRAPHS

