



# CONSTRUCTION EQUIPMENT

## VOLVO EC160 314161 - DIESEL ENGINE



**Sample No:** VCP439038  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP439038</b>	VCP415827	VCP393755	---
Sample Date	<b>09 Jan 2024</b>	12 Jun 2023	10 Jan 2023	---
Machine Hours	<b>994</b>	716	512	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	13.1	12.9	---
Base Number (BN)	mg KOH/g	<b>10.5</b>	10.8	10.4	---
Oxidation (PA)	%	<b>79</b>	78	76	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.3	0.5	---
Nitration (PA)	%	<b>60</b>	56	68	---
Sulfation (PA)	%	<b>60</b>	61	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	6	15	---
Sodium	ppm	<b>&lt;1</b>	3	2	---
Potassium	ppm	<b>&lt;1</b>	0	2	---



### WEAR METALS

Iron	ppm	<b>13</b>	19	112	---
Copper	ppm	<b>2</b>	1	4	---
Lead	ppm	<b>1</b>	0	1	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>10</b>	<1	19	---
Chromium	ppm	<b>2</b>	1	5	---
Molybdenum	ppm	<b>63</b>	43	51	---
Nickel	ppm	<b>2</b>	<1	4	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>&lt;1</b>	<1	<1	---



### ADDITIVES

Calcium	ppm	<b>1610</b>	1755	1722	---
Magnesium	ppm	<b>549</b>	521	515	---
Zinc	ppm	<b>1158</b>	1097	1201	---
Phosphorus	ppm	<b>905</b>	915	924	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>29</b>	49	34	---

### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

**Depot:** VOLVO0090  
**Unique No:** 10830447  
**Signed:** Wes Davis  
**Report Date:** 12 Jan 2024



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## GRAPHS

