



# CONSTRUCTION EQUIPMENT

## VOLVO EC250E 310119 - DIESEL ENGINE



**Sample No:** VCP455339  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP455339</b>	VCP229422	VCP229454	VCP227938
Sample Date	<b>22 Jun 2024</b>	15 May 2018	16 Apr 2018	18 Feb 2018
Machine Hours	<b>14587</b>	5957	5749	5336
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>15.3</b>	13.01	13.22	13.22
Base Number (BN)	mg KOH/g	<b>9.3</b>	---	---	---
Oxidation (PA)	%	<b>112</b>	56	76	72

### 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 condition of the oil is acceptable for the time in service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.1	0	0.1
Nitration (PA)	%	<b>100</b>	42	50	50
Sulfation (PA)	%	<b>74</b>	47	55	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	7	7	8
Sodium	ppm	<b>2</b>	3	4	3
Potassium	ppm	<b>2</b>	4	0	3



### WEAR METALS

Iron	ppm	<b>10</b>	3	3	2
Copper	ppm	<b>&lt;1</b>	3	<1	<1
Lead	ppm	<b>7</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	6
Aluminum	ppm	<b>3</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>59</b>	41	43	42
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1859</b>	1660	1741	1719
Magnesium	ppm	<b>711</b>	514	526	520
Zinc	ppm	<b>1462</b>	823	891	840
Phosphorus	ppm	<b>1072</b>	756	755	774
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>57</b>	45	46	47

**Depot:** VOLVO0090  
**Unique No:** 11098980  
**Signed:** Angela Borella  
**Report Date:** 27 Jun 2024



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## GRAPHS

