



# CONSTRUCTION EQUIPMENT

## 272100 VOLVO EC480 314300 - DIESEL ENGINE



**Sample No:** VCP395899  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 272100



### SAMPLE INFORMATION

Sample Number	<b>VCP395899</b>	VCP418985	VCP357328	VCP344785
Sample Date	<b>05 Jun 2023</b>	08 May 2023	27 May 2022	26 Oct 2021
Machine Hours	<b>5483</b>	5393	4025	2735
Oil Hours	<b>100</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

**FIVE STONES MINE**  
MORNING STAR FARM RD  
CANAL POINT, FL  
US 33430  
Contact: Service Manager

### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.4</b>	■ 12.1	■ 12.5	■ 13.9
Base Number (BN)	mg KOH/g	<b>■ 9.8</b>	■ 7.0	■ 8.7	---
Oxidation (PA)	%	<b>84</b>	88	67	87

T:  
F:

### Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.4	■ 0.8
Nitration (PA)	%	<b>48</b>	90	78	83
Sulfation (PA)	%	<b>61</b>	63	58	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	■ 1.6	<1.0	<1.0
Silicon	ppm	<b>■ 5</b>	■ 6	■ 6	■ 12
Sodium	ppm	<b>■ 2</b>	■ 3	■ 2	■ 4
Potassium	ppm	<b>■ 2</b>	■ <1	■ 1	■ 0

### WEAR METALS

Iron	ppm	<b>■ 3</b>	■ 10	■ 10	■ 38
Copper	ppm	<b>■ &lt;1</b>	■ 1	■ 1	■ 6
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 2
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 3
Aluminum	ppm	<b>■ &lt;1</b>	■ 0	■ 2	■ 7
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 2
Molybdenum	ppm	<b>■ 43</b>	■ 54	■ 62	■ 40
Nickel	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ 0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>■ 0</b>	■ 0	0	0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 2
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>■ 1699</b>	■ 1543	■ 1186	■ 1833
Magnesium	ppm	<b>■ 541</b>	■ 583	■ 1009	■ 585
Zinc	ppm	<b>■ 1214</b>	■ 1127	■ 1343	■ 1180
Phosphorus	ppm	<b>■ 982</b>	■ 907	■ 1120	■ 994
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 48</b>	■ 10	■ 2	■ 21

**Depot:** FIVCAN  
**Unique No:** 10509010  
**Signed:** Sean Felton  
**Report Date:** 13 Jun 2023



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## VOLVO GRAPHS

