



# CONSTRUCTION EQUIPMENT

## 371012 VOLVO EC380E 314843 - DIESEL ENGINE



**Sample No:** VCP394982  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 371012



### SAMPLE INFORMATION

Sample Number	<b>VCP394982</b>	VCP381953	VCP352526	---
Sample Date	<b>17 Jul 2023</b>	07 Mar 2023	31 Oct 2022	---
Machine Hours	<b>2990</b>	2367	1303	---
Oil Hours	<b>1000</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---

### STRONGCO EQUIPMENT (CE)

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.3	12.2	---
Oxidation (PA)	%	<b>83</b>	85	94	---



### CONTAMINATION

Soot %	%	<b>0</b>	0	0	---
Nitration (PA)	%	<b>63</b>	64	75	---
Sulfation (PA)	%	<b>63</b>	70	67	---
Glycol	%	<b>NEG</b>	NEG	0.0	---
Fuel	%	<b>1.5</b>	<1.0	1.7	---
Silicon	ppm	<b>4</b>	6	8	---
Sodium	ppm	<b>2</b>	2	2	---
Potassium	ppm	<b>0</b>	<1	0	---

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. Silver ppm levels are abnormal. Light fuel dilution occurring. No other contaminants were detected in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



### WEAR METALS

Iron	ppm	<b>7</b>	6	8	---
Copper	ppm	<b>7</b>	37	227	---
Lead	ppm	<b>&lt;1</b>	1	6	---
Tin	ppm	<b>&lt;1</b>	<1	1	---
Aluminum	ppm	<b>2</b>	2	2	---
Chromium	ppm	<b>&lt;1</b>	0	0	---
Molybdenum	ppm	<b>43</b>	40	43	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>2</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1510</b>	1738	1719	---
Magnesium	ppm	<b>614</b>	533	514	---
Zinc	ppm	<b>1091</b>	1085	1099	---
Phosphorus	ppm	<b>976</b>	994	990	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>25</b>	40	28	---

**Depot:** VOLVO0252  
**Unique No:** 5616445  
**Signed:** Kevin Marson  
**Report Date:** 24 Jul 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

