



# CONSTRUCTION EQUIPMENT

## 9301 VOLVO EC480E 310061 - DIESEL ENGINE



**Sample No:** VCP367860  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9301



### SAMPLE INFORMATION

Sample Number	<b>VCP367860</b>	VCP371197	VCP355445	VCP323266
Sample Date	<b>18 Jul 2023</b>	26 Jan 2023	15 Aug 2022	06 Jul 2021
Machine Hours	<b>11112</b>	10460	9810	9372
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**CLEAN EARTH - UPPER MARLBORO**  
 6250 DOWER HOUSE RD  
 UPPER MARLBORO, MD  
 US 20772  
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 T:  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.8	12.6	12.3
Base Number (BN)	mg KOH/g	<b>6.4</b>	7.1	11.1	---
Oxidation (PA)	%	<b>70</b>	68	86	73

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>68</b>	71	68	68
Sulfation (PA)	%	<b>63</b>	62	66	68
Glycol	%	<b>NEG</b>	NEG	0.0	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	5	4
Sodium	ppm	<b>24</b>	40	64	▲ 62
Potassium	ppm	<b>&lt;1</b>	<1	0	0

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>6</b>	6	6	<1
Copper	ppm	<b>1</b>	1	3	1
Lead	ppm	<b>&lt;1</b>	0	1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	2	3	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>93</b>	105	50	118
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>2</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1482</b>	1436	1609	1650
Magnesium	ppm	<b>479</b>	502	502	680
Zinc	ppm	<b>1154</b>	975	1035	862
Phosphorus	ppm	<b>933</b>	801	831	770
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>263</b>	267	65	277

**Depot:** CLEUPP  
**Unique No:** 10573000  
**Signed:** Wes Davis  
**Report Date:** 26 Jul 2023



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## VOLVO GRAPHS

