



# CONSTRUCTION EQUIPMENT

## A07607 VOLVO EC480E 3 10234 - DIESEL ENGINE



**Sample No:** VCP348020  
**Oil Type:** MOBIL 15W40  
**Job No:** A07607



### SAMPLE INFORMATION

Sample Number	<b>VCP348020</b>	VCP310403	VCP294483	VCP235870
Sample Date	<b>05 Mar 2022</b>	18 May 2021	27 Jan 2021	24 Jan 2019
Machine Hours	<b>5100</b>	4415	4295	3870
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.7</b>	■ 12.5	■ 13.0	■ 12.12
Base Number (BN)	mg KOH/g	■ <b>7.9</b>	---	---	---
Oxidation (PA)	%	<b>83</b>	78	86	79

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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

Soot %	%	■ <b>0.1</b>	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	<b>89</b>	50	66	83
Sulfation (PA)	%	<b>63</b>	63	63	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	■ <b>0.4</b>	<1.0	<1.0	<1.0
Silicon	ppm	■ <b>6</b>	■ 4	■ 8	■ 6
Sodium	ppm	■ <b>3</b>	■ 3	■ 4	■ 4
Potassium	ppm	■ <b>0</b>	■ 0	■ 4	■ 0

### WEAR METALS

Iron	ppm	■ <b>10</b>	■ 5	■ 16	■ 10
Copper	ppm	■ <b>4</b>	■ 3	■ 20	■ 6
Lead	ppm	■ <b>&lt;1</b>	■ <1	■ 2	■ 2
Tin	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Aluminum	ppm	■ <b>2</b>	■ 1	■ 3	■ 4
Chromium	ppm	■ <b>&lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <b>48</b>	■ 46	■ 40	■ 53
Nickel	ppm	■ <b>0</b>	■ <1	■ <1	■ <1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	■ <b>&lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	<1	0	0

### ADDITIVES

Calcium	ppm	■ <b>1676</b>	■ 1713	■ 1788	■ 1663
Magnesium	ppm	■ <b>543</b>	■ 519	■ 564	■ 446
Zinc	ppm	■ <b>1013</b>	■ 1074	■ 920	■ 808
Phosphorus	ppm	■ <b>860</b>	■ 923	■ 779	■ 634
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	■ <b>36</b>	■ 66	■ 45	■ 46

**Depot:** KCCIVY  
**Unique No:** 9881762  
**Signed:** Don Baldrige  
**Report Date:** 11 Mar 2022



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## GRAPHS

