



# CONSTRUCTION EQUIPMENT

## A10652 VOLVO EC160E 3 10440 - DIESEL ENGINE



**Sample No:** VCP411859  
**Oil Type:** MOBIL 15W40  
**Job No:** A10652



### SAMPLE INFORMATION

Sample Number	<b>VCP411859</b>	VCP342646	VCP295765	VCP246361
Sample Date	<b>07 Jul 2023</b>	27 Jan 2023	10 Aug 2021	27 Feb 2020
Machine Hours	<b>3200</b>	2090	1625	900
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	12.6	13.3	12.2
Base Number (BN)	mg KOH/g	<b>8.7</b>	10.3	---	---
Oxidation (PA)	%	<b>46</b>	76	76	75

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.3	0.3	0.2
Nitration (PA)	%	<b>55</b>	73	88	58
Sulfation (PA)	%	<b>45</b>	58	59	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	11	8	13
Sodium	ppm	<b>1</b>	3	4	3
Potassium	ppm	<b>2</b>	10	2	0

### WEAR METALS

Iron	ppm	<b>22</b>	61	48	30
Copper	ppm	<b>2</b>	3	10	3
Lead	ppm	<b>0</b>	2	<1	0
Tin	ppm	<b>&lt;1</b>	2	1	0
Aluminum	ppm	<b>8</b>	17	13	10
Chromium	ppm	<b>1</b>	3	3	2
Molybdenum	ppm	<b>29</b>	33	29	38
Nickel	ppm	<b>&lt;1</b>	1	1	2
Titanium	ppm	<b>&lt;1</b>	<1	0	<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>2021</b>	1152	1555	1746
Magnesium	ppm	<b>430</b>	383	613	498
Zinc	ppm	<b>1248</b>	830	937	885
Phosphorus	ppm	<b>1026</b>	659	798	746
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>12</b>	30	41	38

### 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.

**Depot:** KCCIVY  
**Unique No:** 10559741  
**Signed:** Wes Davis  
**Report Date:** 16 Jul 2023



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## GRAPHS

