



# CONSTRUCTION EQUIPMENT

## VOLVO EC250EL 31011 - DIESEL ENGINE



**Sample No:** VCP378440  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP378440</b>	VCP400079	VCP359619	VCP359625
Sample Date	<b>14 Sep 2023</b>	22 Jun 2023	01 Mar 2023	27 Oct 2022
Machine Hours	<b>5630</b>	5368	5101	4840
Oil Hours	<b>262</b>	267	261	248
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>12.8</b>	12.8	12.7	13.2
Base Number (BN)	mg KOH/g	<b>10.6</b>	10.3	10.4	11.6
Oxidation (PA)	%	<b>80</b>	83	78	84



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>48</b>	48	48	51
Sulfation (PA)	%	<b>60</b>	61	60	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	7	9	6
Sodium	ppm	<b>1</b>	2	1	2
Potassium	ppm	<b>1</b>	<1	1	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>4</b>	4	3	3
Copper	ppm	<b>1</b>	<1	1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>3</b>	1	2	1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	42	40	40
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1642</b>	1798	1634	1653
Magnesium	ppm	<b>473</b>	544	487	494
Zinc	ppm	<b>925</b>	994	902	907
Phosphorus	ppm	<b>747</b>	810	744	734
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>55</b>	67	64	61

**Depot:** SCHGRE  
**Unique No:** 10671662  
**Signed:** Wes Davis  
**Report Date:** 02 Oct 2023

**VOLVO** **GRAPHS**

