



# CONSTRUCTION EQUIPMENT

## VOLVO EC250EL 31011 - DIESEL ENGINE



**Sample No:** VCP339698  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP339698</b>	VCP378440	VCP400079	VCP359619
Sample Date	<b>05 Dec 2023</b>	14 Sep 2023	22 Jun 2023	01 Mar 2023
Machine Hours	<b>5899</b>	5630	5368	5101
Oil Hours	<b>269</b>	262	267	261
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**SCHILDBERG CONSTRUCTION COMPANY**  
 PO BOX 358  
 GREENFIELD, IA  
 US 50849  
 Contact: SCOTT ARMSTRONG  
 sarmstrong@schildberg.com  
 T: (641)743-8237  
 F: (641)743-2486



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	12.8	12.8	12.7
Base Number (BN)	mg KOH/g	<b>8.0</b>	10.6	10.3	10.4
Oxidation (PA)	%	<b>63</b>	80	83	78

### 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 acceptable for the time in service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>62</b>	48	48	48
Sulfation (PA)	%	<b>51</b>	60	61	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	7	7	9
Sodium	ppm	<b>&lt;1</b>	1	2	1
Potassium	ppm	<b>2</b>	1	<1	1



### WEAR METALS

Iron	ppm	<b>3</b>	4	4	3
Copper	ppm	<b>&lt;1</b>	1	<1	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>3</b>	3	1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>107</b>	42	42	40
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</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>1304</b>	1642	1798	1634
Magnesium	ppm	<b>622</b>	473	544	487
Zinc	ppm	<b>850</b>	925	994	902
Phosphorus	ppm	<b>701</b>	747	810	744
Barium	ppm	<b>11</b>	0	0	<1
Boron	ppm	<b>115</b>	55	67	64

**Depot:** SCHGRE  
**Unique No:** 10782827  
**Signed:** Don Baldrige  
**Report Date:** 15 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

