



# CONSTRUCTION EQUIPMENT

## VOLVO EC250EL 31011 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP400073  
**Oil Type:** MOBIL MOBILUBE HD PLUS 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP400073</b>	VCP359613	VCP359526	VCP346020
Sample Date	<b>22 Jun 2023</b>	01 Mar 2023	27 Oct 2022	12 May 2022
Machine Hours	<b>5368</b>	5101	4840	4265
Oil Hours	<b>267</b>	261	248	203
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	SEVERE	SEVERE	ABNORMAL

**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 @ 40°C	cSt	<b>▲ 330</b>	■ 141	■ 141	■ 144
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### CONTAMINATION

Silicon	ppm	<b>■ 67</b>	● 445	● 915	▲ 279
Sodium	ppm	<b>■ 3</b>	■ 8	■ 23	■ 7
Potassium	ppm	<b>■ 4</b>	■ 45	■ 65	■ 19



### WEAR METALS

Iron	ppm	<b>■ 222</b>	■ 257	● 1817	■ 382
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ 3	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Tin	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Aluminum	ppm	<b>■ 13</b>	▲ 120	● 120	▲ 65
Chromium	ppm	<b>■ 2</b>	■ 4	▲ 18	■ 6
Molybdenum	ppm	<b>■ &lt;1</b>	■ 2	■ 4	■ 2
Nickel	ppm	<b>0</b>	<1	1	<1
Titanium	ppm	<b>&lt;1</b>	5	10	4
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>■ 2</b>	■ 2	■ 14	■ 3
Vanadium	ppm	<b>0</b>	<1	<1	<1



### ADDITIVES

Calcium	ppm	<b>189</b>	■ 365	■ 1311	■ 866
Magnesium	ppm	<b>■ 3</b>	56	■ 99	■ 49
Zinc	ppm	<b>■ 114</b>	■ 76	■ 141	■ 288
Phosphorus	ppm	<b>■ 999</b>	■ 944	■ 1000	■ 1015
Barium	ppm	<b>■ 9</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 187</b>	■ 125	■ 138	■ 118

### Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type.

**Depot:** SCHGRE  
**Unique No:** 10546412  
**Signed:** Don Baldrige  
**Report Date:** 07 Jul 2023



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## GRAPHS

