



# CONSTRUCTION EQUIPMENT

## VOLVO EC250EL 31011 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP339699  
**Oil Type:** MOBIL MOBILUBE HD PLUS 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP339699	VCP378441	VCP379365	VCP360988
Sample Date	05 Dec 2023	14 Sep 2023	22 Jun 2023	01 Mar 2023
Machine Hours	5899	5630	5368	5101
Oil Hours	269	262	267	261
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ATTENTION	ATTENTION	SEVERE

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### OIL CONDITION

Visc @ 40°C	cSt	▲ 330	▲ 325.9	▲ 331	■ 140
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 70	■ 45	■ 41	■ 390
Sodium	ppm	■ 0	■ 2	■ 2	■ 8
Potassium	ppm	■ 6	■ 4	■ 2	■ 35

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	▲ 610	■ 284	■ 267	■ 408
Copper	ppm	■ <1	■ 1	■ <1	■ <1
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 16	■ 11	■ 12	▲ 105
Chromium	ppm	■ 5	■ 2	■ 2	■ 5
Molybdenum	ppm	■ <1	■ <1	■ 0	■ 2
Nickel	ppm	■ 0	■ <1	0	<1
Titanium	ppm	<1	<1	<1	4
Silver	ppm	0	0	0	0
Manganese	ppm	■ 4	■ 2	■ 2	■ 3
Vanadium	ppm	0	0	0	<1



### ADDITIVES

Calcium	ppm	■ 144	■ 159	■ 163	■ 474
Magnesium	ppm	■ 8	■ 5	■ <1	54
Zinc	ppm	■ 98	■ 123	■ 103	■ 71
Phosphorus	ppm	■ 1020	■ 1039	■ 991	■ 972
Barium	ppm	■ 52	■ 57	■ 49	■ 0
Boron	ppm	■ 169	■ 177	■ 184	■ 136

**Depot:** SCHGRE  
**Unique No:** 10789035  
**Signed:** Don Baldrige  
**Report Date:** 17 Dec 2023



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## VOLVO GRAPHS

