



# CONSTRUCTION EQUIPMENT

SW1029638-7 VOLVO EC220EL 314016 - SWING DRIVE



**Sample No:** VCP440156  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SW1029638-7



## SAMPLE INFORMATION

Sample Number	VCP440156	---	---	---
Sample Date	05 Feb 2024	---	---	---
Machine Hours	3247	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 176	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 59	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---



## WEAR METALS

Iron	ppm	█ 186	---	---	---
Copper	ppm	▲ 55	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 14	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 13	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 39	---	---	---
Phosphorus	ppm	█ 447	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ <1	---	---	---

## Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO8770  
**Unique No:** 10873848  
**Signed:** Don Baldrige  
**Report Date:** 13 Feb 2024



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## GRAPHS

