



# CONSTRUCTION EQUIPMENT

## 310041 VOLVO EC480E 311308 - FRONT AXLE



**Sample No:** VCP416156  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 310041



### SAMPLE INFORMATION

Sample Number	VCP416156	---	---	---
Sample Date	20 Aug 2023	---	---	---
Machine Hours	2193	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
 Contact: JIM STRIGLE  
 JIM.STRIGLE@ALTG.COM  
 T: (315)437-2611  
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### OIL CONDITION

Visc @ 40°C	cSt	■ 194	---	---	---
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### CONTAMINATION

Silicon	ppm	● 673	---	---	---
Sodium	ppm	■ 17	---	---	---
Potassium	ppm	■ 59	---	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	● 1884	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 142	---	---	---
Chromium	ppm	● 27	---	---	---
Molybdenum	ppm	■ 3	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	10	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	19	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 180	---	---	---
Magnesium	ppm	■ 34	---	---	---
Zinc	ppm	■ 27	---	---	---
Phosphorus	ppm	■ 439	---	---	---
Barium	ppm	■ 12	---	---	---
Boron	ppm	■ 3	---	---	---

**Depot:** VOLV00142  
**Unique No:** 10630569  
**Signed:** Don Baldrige  
**Report Date:** 05 Sep 2023



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## GRAPHS

