



# CONSTRUCTION EQUIPMENT

SW1028469 VOLVO EC350E 310246 - LEFT DRIVE



**Sample No:** VCP436513  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SW1028469



**ARNOLD MACHINERY COMPANY**  
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## SAMPLE INFORMATION

Sample Number	VCP436513	---	---	---
Sample Date	17 Jan 2024	---	---	---
Machine Hours	7773	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



## OIL CONDITION

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

Water	%	▲ 0.373	---	---	---
Silicon	ppm	◆ 5421	---	---	---
Sodium	ppm	█ 223	---	---	---
Potassium	ppm	█ 436	---	---	---



## WEAR METALS

Iron	ppm	◆ 6432	---	---	---
Copper	ppm	█ 16	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 1072	---	---	---
Chromium	ppm	◆ 59	---	---	---
Molybdenum	ppm	█ 7	---	---	---
Nickel	ppm	◆ 13	---	---	---
Titanium	ppm	█ 42	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 53	---	---	---
Vanadium	ppm	2	---	---	---



## ADDITIVES

Calcium	ppm	█ 4220	---	---	---
Magnesium	ppm	█ 315	---	---	---
Zinc	ppm	█ 813	---	---	---
Phosphorus	ppm	█ 786	---	---	---
Barium	ppm	█ 17	---	---	---
Boron	ppm	█ 20	---	---	---

## 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. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO8770  
**Unique No:** 10845480  
**Signed:** Jonathan Hester  
**Report Date:** 26 Jan 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

