



# CONSTRUCTION EQUIPMENT

## 646971 VOLVO EC380 311542 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP452298  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 646971



### FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE  
 DETROIT, MI  
 US 48207

Contact: KEITH HALL  
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T:  
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### SAMPLE INFORMATION

Sample Number	VCP452298	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	3878	---	---	---
Oil Hours	1878	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



### OIL CONDITION

Visc @ 40°C	cSt	█ 157	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	◆ 224	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 13	---	---	---



### WEAR METALS

Iron	ppm	▲ 1467	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 32	---	---	---
Chromium	ppm	█ 9	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 10	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 99	---	---	---
Magnesium	ppm	█ 20	---	---	---
Zinc	ppm	█ 0	---	---	---
Phosphorus	ppm	█ 1712	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 100	---	---	---

### 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 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.

**Depot:** FERDET  
**Unique No:** 10822957  
**Signed:** Sean Felton  
**Report Date:** 11 Jan 2024



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## VOLVO GRAPHS

