



# CONSTRUCTION EQUIPMENT

## SW-33842-2 CASTLE VA VOLVO EC355 314020 - RIGHT SWING DRIVE



**Sample No:** VCP397205  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SW-33842-2 CASTLE VA



### SAMPLE INFORMATION

Sample Number	VCP397205	---	---	---
Sample Date	03 May 2024	---	---	---
Machine Hours	3270	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**ARNOLD MACHINERY COMPANY**  
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 US 84119  
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### OIL CONDITION

Visc @ 40°C	cSt	● 242	---	---	---
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### CONTAMINATION

Water	%	▲ 2.06	---	---	---
Silicon	ppm	■ 29	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	■ 885	---	---	---
Copper	ppm	■ 27	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 9	---	---	---
Molybdenum	ppm	■ 1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 10	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 24	---	---	---
Magnesium	ppm	■ 18	---	---	---
Zinc	ppm	■ 93	---	---	---
Phosphorus	ppm	■ 1232	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 136	---	---	---

**Depot:** VOLVO8770  
**Unique No:** 11023561  
**Signed:** Don Baldrige  
**Report Date:** 15 May 2024



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## GRAPHS

