



# CONSTRUCTION EQUIPMENT

## 728449 VOLVO EC480 314300 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP439519  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 728449



### SAMPLE INFORMATION

Sample Number	VCP439519	---	---	---
Sample Date	20 Jun 2024	---	---	---
Machine Hours	6215	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**FIVE STONES MINE**  
MORNING STAR FARM RD  
CANAL POINT, FL  
US 33430  
Contact: Service Manager



### OIL CONDITION

Visc @ 40°C	cSt	● 314	---	---	---
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T:  
F:



### CONTAMINATION

Water	%	▲ 0.201	---	---	---
Silicon	ppm	▲ 136	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	▲ 821	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 10	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 9	---	---	---
Vanadium	ppm	■ <1	---	---	---



### ADDITIVES

Calcium	ppm	■ 190	---	---	---
Magnesium	ppm	■ 1	---	---	---
Zinc	ppm	■ 29	---	---	---
Phosphorus	ppm	■ 543	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 24	---	---	---

**Depot:** FIVCAN  
**Unique No:** 11099817  
**Signed:** Jonathan Hester  
**Report Date:** 28 Jun 2024



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## GRAPHS

