



# CONSTRUCTION EQUIPMENT

579734 CENTRAL SITE VOLVO EC350EL 314163 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP422687  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 579734 CENTRAL SITE



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
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## SAMPLE INFORMATION

Sample Number	VCP422687	VCP407831	---	---
Sample Date	15 Jul 2023	30 May 2023	---	---
Machine Hours	2085	1984	---	---
Oil Hours	85	1000	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---



## OIL CONDITION

Visc @ 40°C	cSt	█ 236	█ 211	---	---
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## CONTAMINATION

Silicon	ppm	▲ 116	● 356	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 2	█ 4	---	---



## WEAR METALS

Iron	ppm	█ 397	▲ 1031	---	---
Copper	ppm	█ 1	█ 2	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	▲ 10	▲ 34	---	---
Chromium	ppm	█ 8	▲ 20	---	---
Molybdenum	ppm	█ 18	█ 5	---	---
Nickel	ppm	█ <1	3	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 4	█ 11	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 301	318	---	---
Magnesium	ppm	█ 71	█ 34	---	---
Zinc	ppm	█ 182	█ 111	---	---
Phosphorus	ppm	█ 950	█ 768	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 139	█ 60	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0093  
**Unique No:** 10566015  
**Signed:** Don Baldrige  
**Report Date:** 25 Jul 2023



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## GRAPHS

