



# CONSTRUCTION EQUIPMENT

## VOLVO EC220EL 314599 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP417769  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP417769	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	1187	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**ALTA EQUIPMENT**  
 5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
 Contact: JIM STRIGLE  
 JIM.STRIGLE@ALTG.COM  
 T: (315)437-2611  
 F: (315)434-9471

### OIL CONDITION

Visc @ 40°C	cSt	▲ 170	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 9	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

### WEAR METALS

Iron	ppm	■ 355	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 5	---	---	---
Vanadium	ppm	■ 0	---	---	---

### ADDITIVES

Calcium	ppm	▲ 13	---	---	---
Magnesium	ppm	■ <1	---	---	---
Zinc	ppm	▲ 11	---	---	---
Phosphorus	ppm	▲ 518	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	▲ 12	---	---	---

**Depot:** VOLV00142  
**Unique No:** 10603762  
**Signed:** Jonathan Hester  
**Report Date:** 16 Aug 2023

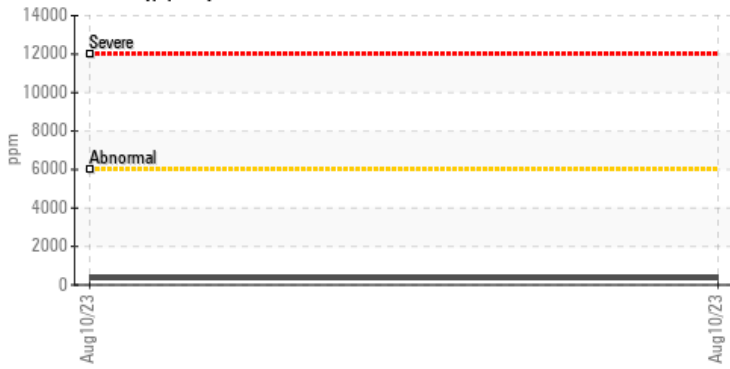


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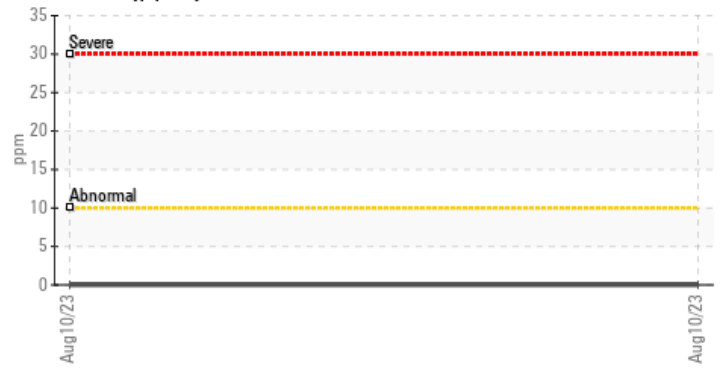


## GRAPHS

### Iron (ppm)



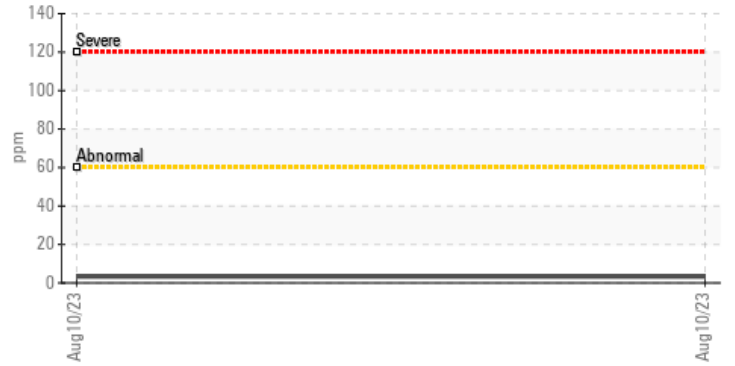
### Lead (ppm)



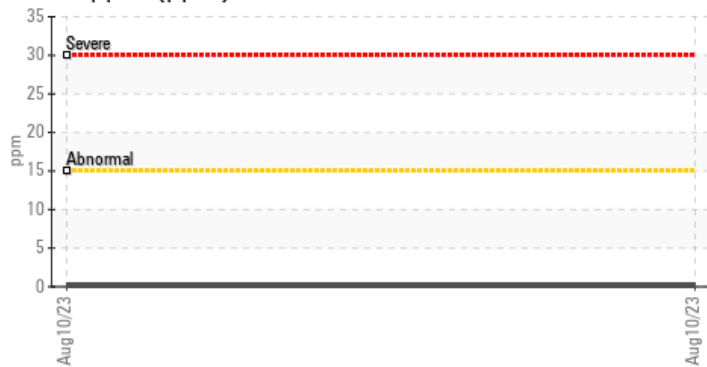
### Aluminum (ppm)



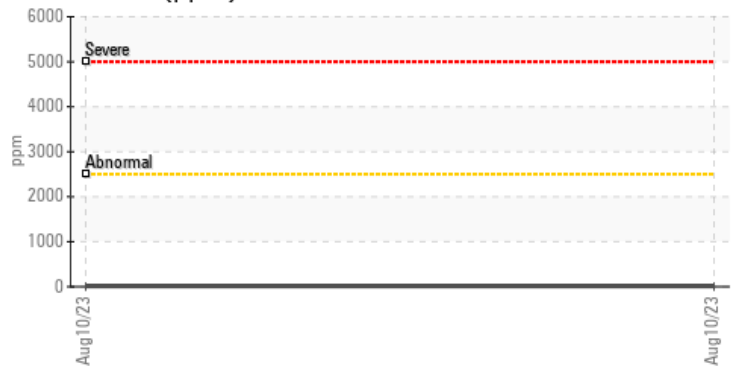
### Chromium (ppm)



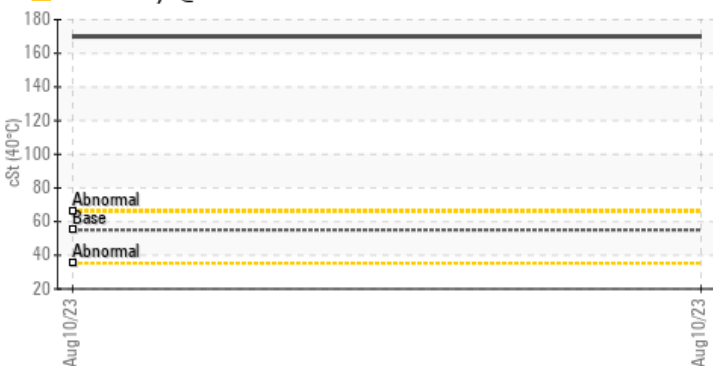
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 40°C



### ▲ Additives

