



# CONSTRUCTION EQUIPMENT

## VOLVO EC220EL 314469 - SWING DRIVE



**Sample No:** VCP411611  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



### SAMPLE INFORMATION

Sample Number	<b>VCP411611</b>	VCP354443	---	---
Sample Date	<b>15 Aug 2023</b>	24 Jul 2022	---	---
Machine Hours	<b>931</b>	334	---	---
Oil Hours	<b>0</b>	334	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>SEVERE</b>	NORMAL	---	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>191</b>	178	---	---
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### CONTAMINATION

Silicon	ppm	<b>47</b>	22	---	---
Sodium	ppm	<b>4</b>	<1	---	---
Potassium	ppm	<b>1</b>	1	---	---



### WEAR METALS

Iron	ppm	<b>3732</b>	840	---	---
Copper	ppm	<b>63</b>	13	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	0	---	---
Aluminum	ppm	<b>8</b>	2	---	---
Chromium	ppm	<b>44</b>	8	---	---
Molybdenum	ppm	<b>4</b>	<1	---	---
Nickel	ppm	<b>1</b>	0	---	---
Titanium	ppm	<b>1</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>36</b>	10	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>10</b>	4	---	---
Magnesium	ppm	<b>3</b>	<1	---	---
Zinc	ppm	<b>52</b>	20	---	---
Phosphorus	ppm	<b>664</b>	337	---	---
Barium	ppm	<b>12</b>	0	---	---
Boron	ppm	<b>2</b>	5	---	---

### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VOLVO0093  
**Unique No:** 10615338  
**Signed:** Jonathan Hester  
**Report Date:** 23 Aug 2023



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## VOLVO GRAPHS

