



# CONSTRUCTION EQUIPMENT

## VOLVO ECR145EL 311251 - SWING DRIVE



**Sample No:** VCP444350  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP444350	VCP374608	---	---
Sample Date	06 Mar 2024	13 Jun 2022	---	---
Machine Hours	2772	1890	---	---
Oil Hours	0	1500	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: PM Services  
PMServices@ripaconstruction.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	249	187	---	---
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### CONTAMINATION

Water	%	1.31	NEG	---	---
Silicon	ppm	28	17	---	---
Sodium	ppm	<1	2	---	---
Potassium	ppm	2	1	---	---

### Diagnosis

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil viscosity is higher than normal.



### WEAR METALS

Iron	ppm	666	748	---	---
Copper	ppm	43	37	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	4	5	---	---
Chromium	ppm	7	6	---	---
Molybdenum	ppm	3	0	---	---
Nickel	ppm	0	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	8	9	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	121	<1	---	---
Magnesium	ppm	26	0	---	---
Zinc	ppm	115	96	---	---
Phosphorus	ppm	842	432	---	---
Barium	ppm	1	4	---	---
Boron	ppm	79	0	---	---

**Depot:** RIPTAM  
**Unique No:** 10940886  
**Signed:** Don Baldrige  
**Report Date:** 26 Mar 2024



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## GRAPHS

