



# CONSTRUCTION EQUIPMENT

## VOLVO ECR145EL 315960 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP414215  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP414215	---	---	---
Sample Date	20 Jul 2023	---	---	---
Machine Hours	497	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
rturner@ripatampa.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	■ 139	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 16	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 1	---	---	---



### WEAR METALS

Iron	ppm	▲ 524	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	▲ 37	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	▲ 10	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 9	---	---	---
Vanadium	ppm	■ 0	---	---	---



### ADDITIVES

Calcium	ppm	■ 48	---	---	---
Magnesium	ppm	■ 1	---	---	---
Zinc	ppm	■ 44	---	---	---
Phosphorus	ppm	■ 252	---	---	---
Barium	ppm	■ 3	---	---	---
Boron	ppm	■ <1	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** RIPTAM  
**Unique No:** 10607519  
**Signed:** Don Baldrige  
**Report Date:** 18 Aug 2023



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## GRAPHS

