



# CONSTRUCTION EQUIPMENT

## SW-24201-2 VOLVO ECR145E 316420 - REAR LEFT FINAL DRIVE



**Sample No:** VCP432509  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SW-24201-2



### SAMPLE INFORMATION

Sample Number	VCP432509	---	---	---
Sample Date	18 Sep 2023	---	---	---
Machine Hours	555	---	---	---
Oil Hours	555	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**ARNOLD MACHINERY COMPANY**  
 2975 WEST 2100 SOUTH  
 SALT LAKE CITY, UT  
 US 84119  
 Contact: TONY PAYAN  
 tpayan@arnoldmachinery.com  
 T: (801)972-4000  
 F: (801)975-9434



### OIL CONDITION

Visc @ 40°C	cSt	█ 137	---	---	---
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### CONTAMINATION

Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 2	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The tin level is abnormal. 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.



### WEAR METALS

Iron	ppm	█ 347	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	▲ 36	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 8	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 8	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 37	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 30	---	---	---
Phosphorus	ppm	█ 324	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** VOLVO8770  
**Unique No:** 10661392  
**Signed:** Don Baldrige  
**Report Date:** 26 Sep 2023



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## GRAPHS

