



# CONSTRUCTION EQUIPMENT

SW27529 VOLVO ECR145E 314542 - DIESEL ENGINE



**Sample No:** VCP441682  
**Oil Type:** MOBIL 15W40  
**Job No:** SW27529



## SAMPLE INFORMATION

Sample Number	VCP441682	---	---	---
Sample Date	13 Dec 2023	---	---	---
Machine Hours	2127	---	---	---
Oil Hours	147	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

**ARNOLD MACHINERY COMPANY**  
3330 NORTH YELLOWSTONE HIGHWAY  
IDAHO FALLS, ID  
US 83401  
Contact: DAVE BOSTON  
dboston@arnoldmachinery.com  
T:  
F: (208)523-9918



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	57	---	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 2	---	---	---



## WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 79	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	1043	---	---	---
Magnesium	ppm	█ 893	---	---	---
Zinc	ppm	█ 1191	---	---	---
Phosphorus	ppm	█ 988	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 32	---	---	---

**Depot:** VOLVO0077  
**Unique No:** 10795623  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

