



# CONSTRUCTION EQUIPMENT

226031 REPUBLIC VOLVO ECR145D 210535 - DIESEL ENGINE



**Sample No:** VCP368602  
**Oil Type:** {unknown}  
**Job No:** 226031 REPUBLIC



## SAMPLE INFORMATION

Sample Number	VCP368602	---	---	---
Sample Date	20 May 2024	---	---	---
Machine Hours	9043	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	NORMAL	---	---	---

**PACWEST MACHINERY**  
8207 SOUTH 216TH STREET  
KENT, WA  
US 98032  
Contact: CHRIS COPELAND  
ccopeland@pacwestmachinery.com  
T: (800)935-5933  
F: (509)534-5286



## OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	█ 8.7	---	---	---
Oxidation (PA)	%	54	---	---	---

## Diagnosis

Resample at the next service interval to monitor. Tests do not reveal cause for reported problem. 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 %	%	█ 0.1	---	---	---
Nitration (PA)	%	42	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---



## WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 106	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	█ 1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 1643	---	---	---
Magnesium	ppm	█ 1317	---	---	---
Zinc	ppm	1640	---	---	---
Phosphorus	ppm	█ 1328	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 42	---	---	---

**Depot:** VOLVO1271  
**Unique No:** 11048554  
**Signed:** Don Baldrige  
**Report Date:** 30 May 2024



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## GRAPHS

