



# CONSTRUCTION EQUIPMENT

W07013329 VOLVO ECR235E 314664 - DIESEL ENGINE



**Sample No:** VCP415465  
**Oil Type:** MOBIL 15W40  
**Job No:** W07013329



## SAMPLE INFORMATION

Sample Number	VCP415465	VCP359047	---	---
Sample Date	13 Nov 2023	29 Apr 2022	---	---
Machine Hours	1107	522	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
1345 MOUNTAIN ROAD  
GLEN ALLEN, VA  
US 23060  
Contact: KYLE RATLIFFE  
KRATLIFFE@MCCLUNG-LOGAN.COM  
T:  
F: (804)266-1611



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 7.2	█ 7.5	---	---
Oxidation (PA)	%	67	48	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	68	65	---	---
Sulfation (PA)	%	62	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 10	█ 13	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 10	█ 1	---	---



## WEAR METALS

Iron	ppm	█ 24	█ 29	---	---
Copper	ppm	█ 2	█ 6	---	---
Lead	ppm	█ <1	█ 1	---	---
Tin	ppm	█ 2	█ 2	---	---
Aluminum	ppm	█ 6	█ 4	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	116	█ 11	---	---
Nickel	ppm	█ 3	█ 7	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ 3	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	█ 1556	█ 2384	---	---
Magnesium	ppm	█ 511	█ 138	---	---
Zinc	ppm	█ 1054	█ 1125	---	---
Phosphorus	ppm	█ 933	█ 1002	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 229	█ 13	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 suitable for further service.

**Depot:** VOLVO8882  
**Unique No:** 10756824  
**Signed:** Wes Davis  
**Report Date:** 28 Nov 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

