



# CONSTRUCTION EQUIPMENT

## SW1030715-2 VOLVO EC480E 315096 - DIESEL ENGINE



**Sample No:** VCP443091  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1030715-2



### SAMPLE INFORMATION

Sample Number	VCP443091	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	904	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

### ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH  
 SALT LAKE CITY, UT  
 US 84119  
 Contact: JUSTIN BENCH  
 JUSTIN.BENCH@ARNOLDMACHINERY.COM  
 T: (801)698-5639  
 F: (801)975-9434



### OIL CONDITION

Visc @ 100°C	cSt	● 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 9.4	---	---	---
Oxidation (PA)	%	71	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 3	---	---	---



### WEAR METALS

Iron	ppm	■ 9	---	---	---
Copper	ppm	■ 44	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 62	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 1451	---	---	---
Magnesium	ppm	■ 763	---	---	---
Zinc	ppm	■ 1242	---	---	---
Phosphorus	ppm	■ 1062	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 12	---	---	---

**Depot:** VOLVO8770  
**Unique No:** 10938890  
**Signed:** Sean Felton  
**Report Date:** 25 Mar 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

