



# CONSTRUCTION EQUIPMENT

## 396155 VOLVO EC480EL 315081 - DIESEL ENGINE



**Sample No:** VCP450172  
**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40  
**Job No:** 396155



### SAMPLE INFORMATION

Sample Number	VCP450172	---	---	---
Sample Date	23 Feb 2024	---	---	---
Machine Hours	510	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



### OIL CONDITION

Visc @ 100°C	cSt	10.2	---	---	---
Oxidation (PA)	%	65	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	84	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.1	---	---	---
Silicon	ppm	31	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	4	---	---	---



### WEAR METALS

Iron	ppm	16	---	---	---
Copper	ppm	451	---	---	---
Lead	ppm	14	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	86	---	---	---
Nickel	ppm	1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	2185	---	---	---
Magnesium	ppm	13	---	---	---
Zinc	ppm	1124	---	---	---
Phosphorus	ppm	993	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	48	---	---	---



### STRONGCO EQUIPMENT (CE)

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### Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. The fluid was specified as VOLVO VDS-4.5 Premium Motor Oil 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. Metal levels are typical for a new component breaking in. 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. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0252  
**Unique No:** 5737583  
**Signed:** Kevin Marson  
**Report Date:** 08 Mar 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

