



# CONSTRUCTION EQUIPMENT

## VOLVO EC480EL 314981 - DIESEL ENGINE



**Sample No:** VCP438700  
**Oil Type:** DIESEL ENGINE OIL SAE 30  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP438700</b>	VCP432036	VCP433870	VCP369463
Sample Date	<b>15 Apr 2024</b>	07 Feb 2024	23 Oct 2023	07 Aug 2023
Machine Hours	<b>3400</b>	2922	2416	1929
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.1	12.2	12.2
Base Number (BN)	mg KOH/g	<b>5.8</b>	6.1	8.2	9.1
Oxidation (PA)	%	<b>71</b>	73	80	82



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>80</b>	83	69	67
Sulfation (PA)	%	<b>54</b>	55	57	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	9	17	10
Sodium	ppm	<b>3</b>	1	3	0
Potassium	ppm	<b>0</b>	2	<1	1



### WEAR METALS

Iron	ppm	<b>4</b>	6	6	6
Copper	ppm	<b>2</b>	4	3	3
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>97</b>	103	48	44
Nickel	ppm	<b>0</b>	<1	2	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1468</b>	1346	1662	1673
Magnesium	ppm	<b>616</b>	613	542	469
Zinc	ppm	<b>899</b>	907	951	894
Phosphorus	ppm	<b>756</b>	658	773	734
Barium	ppm	<b>0</b>	11	0	2
Boron	ppm	<b>34</b>	41	20	19

### 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 suitable for further service.

**Depot:** SAIBIR  
**Unique No:** 11003235  
**Signed:** Sean Felton  
**Report Date:** 30 Apr 2024



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## GRAPHS

