



# CONSTRUCTION EQUIPMENT

## VOLVO EC480EL 314981 - DIESEL ENGINE



**Sample No:** VCP369463  
**Oil Type:** DIESEL ENGINE OIL SAE 30  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP369463</b>	VCP405900	VCP402278	VCP371405
Sample Date	<b>07 Aug 2023</b>	07 Jun 2023	22 Mar 2023	11 Jan 2023
Machine Hours	<b>1929</b>	1475	982	499
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.2	11.9	10.6
Base Number (BN)	mg KOH/g	<b>9.1</b>	8.4	7.6	5.5
Oxidation (PA)	%	<b>82</b>	85	71	69



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>67</b>	68	73	84
Sulfation (PA)	%	<b>60</b>	62	59	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	0.4
Silicon	ppm	<b>10</b>	10	9	28
Sodium	ppm	<b>0</b>	3	2	4
Potassium	ppm	<b>1</b>	1	<1	3



### WEAR METALS

Iron	ppm	<b>6</b>	9	6	11
Copper	ppm	<b>3</b>	7	48	199
Lead	ppm	<b>&lt;1</b>	<1	0	2
Tin	ppm	<b>&lt;1</b>	1	<1	3
Aluminum	ppm	<b>2</b>	2	1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	51	59	87
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	2
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1673</b>	1630	1521	2315
Magnesium	ppm	<b>469</b>	551	827	77
Zinc	ppm	<b>894</b>	988	1257	1170
Phosphorus	ppm	<b>734</b>	805	1002	959
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>19</b>	22	9	25

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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:** 10607017  
**Signed:** Sean Felton  
**Report Date:** 18 Aug 2023



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## GRAPHS

