



# CONSTRUCTION EQUIPMENT

## SPM594733 VOLVO EC380E 314966 - DIESEL ENGINE



**Sample No:** VCP415258  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM594733



### SAMPLE INFORMATION

Sample Number	<b>VCP415258</b>	VCP420642	VCP422175	VCP387427
Sample Date	<b>25 Aug 2023</b>	19 Jul 2023	07 Jun 2023	11 Apr 2023
Machine Hours	<b>5784</b>	4982	4682	3953
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### UNITED SCRAP

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.2	12.9	13.2
Base Number (BN)	mg KOH/g	<b>7.6</b>	8.1	7.0	7.4
Oxidation (PA)	%	<b>85</b>	80	95	80

### 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.



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>83</b>	80	99	80
Sulfation (PA)	%	<b>61</b>	60	65	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	2	3	3
Sodium	ppm	<b>2</b>	0	4	2
Potassium	ppm	<b>1</b>	1	0	0



### WEAR METALS

Iron	ppm	<b>6</b>	5	7	5
Copper	ppm	<b>&lt;1</b>	1	2	1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>56</b>	66	66	51
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1116</b>	1167	1304	900
Magnesium	ppm	<b>928</b>	977	1067	742
Zinc	ppm	<b>1208</b>	1314	1353	941
Phosphorus	ppm	<b>994</b>	1080	1096	856
Barium	ppm	<b>2</b>	2	0	0
Boron	ppm	<b>6</b>	0	7	9

**Depot:** UNICICIL  
**Unique No:** 10633972  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023



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## GRAPHS

