



# CONSTRUCTION EQUIPMENT

## SPM594733 VOLVO EC380E 314966 - RIGHT FINAL DRIVE



**Sample No:** VCP414942  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM594733



### SAMPLE INFORMATION

Sample Number	<b>VCP414942</b>	VCP420036	VCP387455	VCP401770
Sample Date	<b>25 Aug 2023</b>	19 Jul 2023	11 Apr 2023	20 Jan 2023
Machine Hours	<b>5784</b>	4982	3953	1858
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

### UNITED SCRAP

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### OIL CONDITION

Visc @ 40°C	cSt	<b>148</b>	192	184	195
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### CONTAMINATION

Silicon	ppm	<b>27</b>	▲ 92	▲ 84	■ 22
Sodium	ppm	<b>2</b>	■ 3	■ 5	■ 2
Potassium	ppm	<b>&lt;1</b>	■ 4	■ 4	■ <1



### WEAR METALS

Iron	ppm	<b>128</b>	■ 395	■ 368	■ 63
Copper	ppm	<b>1</b>	■ 1	■ 4	■ 10
Lead	ppm	<b>0</b>	■ 2	■ 0	■ 1
Tin	ppm	<b>0</b>	■ <1	■ 0	■ <1
Aluminum	ppm	<b>4</b>	▲ 11	▲ 13	■ 4
Chromium	ppm	<b>3</b>	■ 8	▲ 14	■ 3
Molybdenum	ppm	<b>0</b>	4	■ 3	■ 1
Nickel	ppm	<b>0</b>	■ <1	■ <1	■ 0
Titanium	ppm	<b>&lt;1</b>	2	1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	4	■ 5	■ 1
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>627</b>	2673	■ 2436	■ 2373
Magnesium	ppm	<b>33</b>	107	■ 74	■ 24
Zinc	ppm	<b>230</b>	933	■ 822	■ 1037
Phosphorus	ppm	<b>960</b>	759	■ 746	■ 848
Barium	ppm	<b>&lt;1</b>	0	■ 4	■ <1
Boron	ppm	<b>191</b>	4	■ 5	■ <1

### 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 condition of the oil is acceptable for the time in service.

**Depot:** UNICICIL  
**Unique No:** 10634527  
**Signed:** Don Baldrige  
**Report Date:** 08 Sep 2023



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## VOLVO GRAPHS

