



# CONSTRUCTION EQUIPMENT

## SPM580157 VOLVO EC380E 315082 - RIGHT FINAL DRIVE



**Sample No:** VCP422637  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM580157



### SAMPLE INFORMATION

Sample Number	<b>VCP422637</b>	VCP418539	VCP403581	VCP364028
Sample Date	<b>13 Jul 2023</b>	02 May 2023	16 Mar 2023	14 Sep 2022
Machine Hours	<b>3213</b>	2700	2412	540
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

### UNITED SCRAP

1545 S CICERO AVE  
 CICERO, IL  
 US 60804  
 Contact: RON LUCHTENBURG  
 rluchten@unitedscrap.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>196</b>	121	121	175
-------------	-----	------------	-----	-----	-----



### CONTAMINATION

Water	%	---	▲ 0.278	▲ 0.270	---
Silicon	ppm	<b>61</b>	▲ 234	▲ 217	11
Sodium	ppm	<b>2</b>	60	63	1
Potassium	ppm	<b>2</b>	5	4	0



### WEAR METALS

Iron	ppm	<b>266</b>	702	657	121
Copper	ppm	<b>0</b>	10	10	0
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>13</b>	▲ 13	▲ 13	2
Chromium	ppm	▲ <b>11</b>	2	1	3
Molybdenum	ppm	<b>2</b>	11	12	0
Nickel	ppm	<b>0</b>	1	0	0
Titanium	ppm	<b>2</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	6	6	2
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2625</b>	274	271	15
Magnesium	ppm	<b>45</b>	34	35	2
Zinc	ppm	<b>1162</b>	119	114	5
Phosphorus	ppm	<b>938</b>	728	726	348
Barium	ppm	<b>0</b>	0	0	1
Boron	ppm	<b>&lt;1</b>	123	130	0

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The chromium level is abnormal. All other 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:** 10574654  
**Signed:** Sean Felton  
**Report Date:** 28 Jul 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

