



# CONSTRUCTION EQUIPMENT

## SPM619899 VOLVO EC380E 310775 - LEFT FINAL DRIVE



**Sample No:** VCP413066  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM619899



### SAMPLE INFORMATION

Sample Number	<b>VCP413066</b>	VCP387429	VCP325815	---
Sample Date	<b>12 Oct 2023</b>	16 Nov 2022	21 Sep 2021	---
Machine Hours	<b>22964</b>	19763	16084	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	---

### UNITED SCRAP

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### OIL CONDITION

Visc @ 40°C	cSt	<b>203</b>	197	149	---
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### CONTAMINATION

Water	%	<b>2.20</b>	1.18	---	---
Silicon	ppm	<b>454</b>	166	318	---
Sodium	ppm	<b>13</b>	9	8	---
Potassium	ppm	<b>28</b>	8	13	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	<b>1608</b>	716	1575	---
Copper	ppm	<b>6</b>	4	7	---
Lead	ppm	<b>6</b>	2	<1	---
Tin	ppm	<b>2</b>	<1	<1	---
Aluminum	ppm	<b>71</b>	30	40	---
Chromium	ppm	<b>39</b>	29	21	---
Molybdenum	ppm	<b>5</b>	5	3	---
Nickel	ppm	<b>5</b>	3	2	---
Titanium	ppm	<b>7</b>	2	2	---
Silver	ppm	<b>0</b>	1	0	---
Manganese	ppm	<b>12</b>	6	9	---
Vanadium	ppm	<b>&lt;1</b>	<1	<1	---



### ADDITIVES

Calcium	ppm	<b>3506</b>	2021	270	---
Magnesium	ppm	<b>385</b>	100	60	---
Zinc	ppm	<b>1140</b>	862	96	---
Phosphorus	ppm	<b>969</b>	781	1037	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>9</b>	35	166	---

**Depot:** UNICICIL  
**Unique No:** 10713383  
**Signed:** Don Baldrige  
**Report Date:** 30 Oct 2023



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## GRAPHS

