



# CONSTRUCTION EQUIPMENT

## SPM580155 VOLVO EC380E 314966 - SWING DRIVE



**Sample No:** VCP420639  
**Oil Type:** TDTO FLUID SAE 50  
**Job No:** SPM580155



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP420639</b>   | VCP387454   | VCP401614   | VCP365854   |
| Sample Date   | <b>19 Jul 2023</b> | 11 Apr 2023 | 20 Jan 2023 | 14 Nov 2022 |
| Machine Hours | <b>4982</b>        | 3953        | 1858        | 2125        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Not Changd  | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

### UNITED SCRAP

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### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>191</b> | 196 | 196 | 199 |
|-------------|-----|------------|-----|-----|-----|



### CONTAMINATION

|           |     |              |    |    |    |
|-----------|-----|--------------|----|----|----|
| Silicon   | ppm | <b>20</b>    | 21 | 11 | 15 |
| Sodium    | ppm | <b>&lt;1</b> | 1  | 1  | 0  |
| Potassium | ppm | <b>&lt;1</b> | 0  | 0  | 2  |



### WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>15</b>    | 60 | 41 | 86 |
| Copper     | ppm | <b>2</b>     | 4  | 5  | 10 |
| Lead       | ppm | <b>&lt;1</b> | 0  | <1 | 0  |
| Tin        | ppm | <b>&lt;1</b> | 0  | <1 | <1 |
| Aluminum   | ppm | <b>0</b>     | 2  | 1  | 2  |
| Chromium   | ppm | <b>&lt;1</b> | 1  | 1  | 1  |
| Molybdenum | ppm | <b>3</b>     | 1  | <1 | <1 |
| Nickel     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Titanium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | <1 |
| Manganese  | ppm | <b>&lt;1</b> | 1  | <1 | 1  |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>2612</b> | 3195 | 2421 | 2634 |
| Magnesium  | ppm | <b>65</b>   | 42   | 16   | 17   |
| Zinc       | ppm | <b>957</b>  | 1097 | 1079 | 1108 |
| Phosphorus | ppm | <b>770</b>  | 893  | 875  | 942  |
| Barium     | ppm | <b>0</b>    | 0    | 1    | <1   |
| Boron      | ppm | <b>3</b>    | 3    | <1   | 3    |

### 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:** 10586812  
**Signed:** Don Baldrige  
**Report Date:** 04 Aug 2023



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## GRAPHS

