



# CONSTRUCTION EQUIPMENT

## SW-2496-2 VOLVO EC300E 31 1876 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP440960  
**Oil Type:** VOLVO SUPER GEAR OIL 75W-80-GO102  
**Job No:** SW-2496-2



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP440960</b>   | VCP416641   | VCP398000   | VCP383836   |
| Sample Date   | <b>05 Jan 2024</b> | 20 Jun 2023 | 19 Jan 2023 | 13 Dec 2022 |
| Machine Hours | <b>6600</b>        | 6086        | 5691        | 5659        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Not Changd  | N/A         |
| Sample Status | <b>SEVERE</b>      | SEVERE      | ABNORMAL    | SEVERE      |

### SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207

Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269



### OIL CONDITION

|             |     |              |       |     |       |
|-------------|-----|--------------|-------|-----|-------|
| Visc @ 40°C | cSt | <b>▲ 303</b> | ■ 304 | 279 | ▲ 279 |
|-------------|-----|--------------|-------|-----|-------|



### CONTAMINATION

| Water     | %   | NEG          | NEG   | NEG   | NEG   |
|-----------|-----|--------------|-------|-------|-------|
| Silicon   | ppm | <b>■ 277</b> | ■ 256 | ▲ 191 | ■ 351 |
| Sodium    | ppm | ■ 0          | ■ 4   | ■ 2   | ■ 4   |
| Potassium | ppm | ■ 12         | ■ 11  | ■ 8   | ■ 10  |



### WEAR METALS

|            |     |              |       |       |       |
|------------|-----|--------------|-------|-------|-------|
| Iron       | ppm | <b>▲ 827</b> | ▲ 532 | ■ 244 | ▲ 606 |
| Copper     | ppm | ■ 2          | ■ 1   | ■ <1  | ■ 1   |
| Lead       | ppm | ■ 0          | ■ 0   | ■ <1  | ■ <1  |
| Tin        | ppm | ■ 0          | ■ 0   | ■ 0   | ■ <1  |
| Aluminum   | ppm | <b>▲ 76</b>  | ▲ 67  | ▲ 78  | ▲ 83  |
| Chromium   | ppm | <b>▲ 13</b>  | ▲ 10  | ■ 8   | ▲ 13  |
| Molybdenum | ppm | ■ 3          | 3     | 3     | 4     |
| Nickel     | ppm | ■ <1         | 1     | ■ <1  | <1    |
| Titanium   | ppm | <b>6</b>     | 6     | 5     | 7     |
| Silver     | ppm | <b>0</b>     | 0     | 0     | 0     |
| Manganese  | ppm | ■ 6          | 6     | 4     | 6     |
| Vanadium   | ppm | <b>0</b>     | <1    | <1    | <1    |



### ADDITIVES

|            |     |               |     |     |     |
|------------|-----|---------------|-----|-----|-----|
| Calcium    | ppm | ■ <b>350</b>  | 333 | 462 | 588 |
| Magnesium  | ppm | ■ <b>53</b>   | 77  | 102 | 112 |
| Zinc       | ppm | ■ <b>59</b>   | 65  | 91  | 86  |
| Phosphorus | ppm | ■ <b>1068</b> | 971 | 896 | 938 |
| Barium     | ppm | ■ <1          | 0   | <1  | 0   |
| Boron      | ppm | ■ <b>146</b>  | 151 | 107 | 119 |

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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. The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** SAIBIR  
**Unique No:** 10842678  
**Signed:** Don Baldrige  
**Report Date:** 23 Jan 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

