



# CONSTRUCTION EQUIPMENT

## VOLVO EC750E 314101 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP408666  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP408666</b>   | VCP365882   | VCP377947   | VCP354087   |
| Sample Date   | <b>20 Jun 2023</b> | 05 Oct 2022 | 29 Aug 2022 | 13 Jun 2022 |
| Machine Hours | <b>4232</b>        | 3558        | 3206        | 2513        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>N/A</b>         | Not Changd  | Changed     | Not Changd  |
| Sample Status | <b>ABNORMAL</b>    | SEVERE      | SEVERE      | SEVERE      |

**ROMCO INC**  
 1350 NE LOOP 820  
 FORT WORTH, TX  
 US 76106  
 Contact: CHRIS BITNER  
 CBitner@romco.com  
 T:  
 F: (817)626-8983



### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>125</b> | 141 | 202 | 136 |
|-------------|-----|------------|-----|-----|-----|



### CONTAMINATION

|           |     |             |         |       |       |
|-----------|-----|-------------|---------|-------|-------|
| Water     | %   | ---         | ▲ 0.963 | ---   | ---   |
| Silicon   | ppm | ▲ <b>97</b> | ■ 499   | ■ 752 | ■ 457 |
| Sodium    | ppm | ■ <b>1</b>  | ■ <1    | ■ 3   | ■ 2   |
| Potassium | ppm | ■ <b>3</b>  | ■ 11    | ■ 10  | ■ 8   |



### WEAR METALS

|            |     |                |        |        |        |
|------------|-----|----------------|--------|--------|--------|
| Iron       | ppm | ■ <b>222</b>   | ▲ 1306 | ■ 2911 | ■ 1574 |
| Copper     | ppm | ■ <b>&lt;1</b> | ■ 3    | ■ 7    | ■ 4    |
| Lead       | ppm | ■ <b>0</b>     | ■ 0    | ■ 0    | ■ 0    |
| Tin        | ppm | ■ <b>0</b>     | ■ 1    | ■ 0    | ■ <1   |
| Aluminum   | ppm | ▲ <b>11</b>    | ▲ 60   | ▲ 66   | ▲ 40   |
| Chromium   | ppm | ■ <b>3</b>     | ■ 8    | ▲ 17   | ■ 9    |
| Molybdenum | ppm | ■ <b>&lt;1</b> | ■ 2    | ■ 3    | ■ 2    |
| Nickel     | ppm | ■ <b>0</b>     | ■ 2    | ■ 2    | ■ 2    |
| Titanium   | ppm | ■ <b>1</b>     | ■ 4    | ■ 4    | ■ 2    |
| Silver     | ppm | ■ <b>0</b>     | ■ 0    | ■ 0    | ■ 0    |
| Manganese  | ppm | ■ <b>10</b>    | ■ 10   | ■ 19   | ■ 11   |
| Vanadium   | ppm | ■ <b>0</b>     | ■ <1   | ■ <1   | ■ <1   |



### ADDITIVES

|            |     |                |       |       |       |
|------------|-----|----------------|-------|-------|-------|
| Calcium    | ppm | ■ <b>58</b>    | ■ 132 | ■ 193 | ■ 132 |
| Magnesium  | ppm | ■ <b>3</b>     | ■ 9   | ■ 8   | ■ 6   |
| Zinc       | ppm | ■ <b>0</b>     | ■ 20  | ■ 31  | ■ 31  |
| Phosphorus | ppm | ■ <b>607</b>   | ■ 953 | ■ 907 | ■ 974 |
| Barium     | ppm | ■ <b>0</b>     | ■ 0   | ■ 4   | ■ 0   |
| Boron      | ppm | ■ <b>&lt;1</b> | ■ 148 | ■ 171 | ■ 180 |

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0081  
**Unique No:** 10534173  
**Signed:** Don Baldrige  
**Report Date:** 29 Jun 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

