

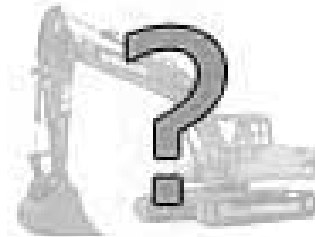


# CONSTRUCTION EQUIPMENT

## 534195 TERRAMAC RT14R 14RH00105 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP435060  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 534195



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP435060   | --- | --- | --- |
| Sample Date   | 15 Apr 2024 | --- | --- | --- |
| Machine Hours | 2616        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Not Chngd   | --- | --- | --- |
| Sample Status | SEVERE      | --- | --- | --- |

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
 Contact: JIM STRIGLE  
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### OIL CONDITION

|             |     |       |     |     |     |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 230 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



### CONTAMINATION

|           |     |       |     |     |     |
|-----------|-----|-------|-----|-----|-----|
| Water     | %   | NEG   | --- | --- | --- |
| Silicon   | ppm | ▲ 547 | --- | --- | --- |
| Sodium    | ppm | ■ 16  | --- | --- | --- |
| Potassium | ppm | ■ 41  | --- | --- | --- |



### WEAR METALS

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Iron       | ppm | ▲ 3526 | --- | --- | --- |
| Copper     | ppm | ▲ 2535 | --- | --- | --- |
| Lead       | ppm | ■ <1   | --- | --- | --- |
| Tin        | ppm | ▲ 336  | --- | --- | --- |
| Aluminum   | ppm | ● 111  | --- | --- | --- |
| Chromium   | ppm | ▲ 44   | --- | --- | --- |
| Molybdenum | ppm | ■ 303  | --- | --- | --- |
| Nickel     | ppm | ■ 12   | --- | --- | --- |
| Titanium   | ppm | 9      | --- | --- | --- |
| Silver     | ppm | <1     | --- | --- | --- |
| Manganese  | ppm | ■ 24   | --- | --- | --- |
| Vanadium   | ppm | <1     | --- | --- | --- |



### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 174  | --- | --- | --- |
| Magnesium  | ppm | ■ 32   | --- | --- | --- |
| Zinc       | ppm | ■ 30   | --- | --- | --- |
| Phosphorus | ppm | ■ 1107 | --- | --- | --- |
| Barium     | ppm | ■ 6    | --- | --- | --- |
| Boron      | ppm | ■ 146  | --- | --- | --- |

### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. Generally an abnormal to severe rate of wear throughout the component. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO0142  
**Unique No:** 10990231  
**Signed:** Don Baldrige  
**Report Date:** 23 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

