



# CONSTRUCTION EQUIPMENT

## RA47 VOLVO A40G 352354 - DROP BOX



**Sample No:** VCP435128  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** RA47



### SAMPLE INFORMATION

| Sample Number | VCP435128   | VCP374232   | VCP319617   | VCP316518   |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date   | 16 Nov 2023 | 13 May 2022 | 02 Feb 2022 | 27 Aug 2021 |
| Machine Hours | 5488        | 2872        | 2226        | 1496        |
| Oil Hours     | 500         | 500         | 1000        | 500         |
| Oil Changed   | Not Chngd   | Not Chngd   | Changed     | Not Chngd   |
| Sample Status | ATTENTION   | NORMAL      | ABNORMAL    | NORMAL      |

**HOUSBY HEAVY EQUIPMENT, LLC**  
 4410 SE 4 MILE DR  
 ANKENY, IA  
 US 50021  
 Contact: RANDY VANDERLEEST  
 rvanderleest@housby.com  
 T:  
 F: (515)964-2865



### OIL CONDITION

| Visc @ 40°C | cSt | ▲ 283 | ■ 141 | 122 | 120 |
|-------------|-----|-------|-------|-----|-----|
|-------------|-----|-------|-------|-----|-----|



### CONTAMINATION

| Water     | %   | NEG  | NEG  | NEG  | NEG  |
|-----------|-----|------|------|------|------|
| Silicon   | ppm | ■ 3  | ■ 2  | ■ 10 | ■ 8  |
| Sodium    | ppm | ■ <1 | ■ <1 | ■ 2  | ■ 2  |
| Potassium | ppm | ■ 0  | ■ <1 | ■ 0  | ■ 11 |



### WEAR METALS

|            |     |      |      |       |      |
|------------|-----|------|------|-------|------|
| Iron       | ppm | ■ 84 | ■ 86 | ■ 114 | ■ 29 |
| Copper     | ppm | ■ <1 | ■ <1 | ■ 3   | ■ 2  |
| Lead       | ppm | ■ 0  | ■ 0  | ■ 0   | ■ 0  |
| Tin        | ppm | ■ 0  | ■ 0  | ■ 0   | ■ 0  |
| Aluminum   | ppm | ■ <1 | ■ <1 | ■ 0   | ■ 0  |
| Chromium   | ppm | ■ 1  | ■ 1  | ■ 2   | ■ <1 |
| Molybdenum | ppm | ■ 4  | ■ 3  | ■ 14  | ■ 1  |
| Nickel     | ppm | ■ 0  | ■ <1 | ■ 1   | ■ <1 |
| Titanium   | ppm | 0    | 0    | 0     | 0    |
| Silver     | ppm | 0    | <1   | 0     | 0    |
| Manganese  | ppm | ■ <1 | ■ 6  | ■ 2   | ■ <1 |
| Vanadium   | ppm | 0    | 0    | 0     | 0    |



### ADDITIVES

|            |     |       |        |        |        |
|------------|-----|-------|--------|--------|--------|
| Calcium    | ppm | ■ 0   | 8      | ■ 16   | ■ 13   |
| Magnesium  | ppm | ■ 0   | ■ 1    | ■ <1   | ■ <1   |
| Zinc       | ppm | ■ 4   | ■ 4    | ■ 15   | ■ 17   |
| Phosphorus | ppm | ■ 981 | ■ 1089 | ■ 1335 | ■ 1266 |
| Barium     | ppm | ■ 0   | ■ 0    | ■ 0    | ■ 0    |
| Boron      | ppm | ■ 176 | ■ 191  | ■ 203  | ■ 206  |

### 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 oil viscosity is higher than normal. Confirm oil type.

**Depot:** VOLVO0080  
**Unique No:** 10753506  
**Signed:** Don Baldrige  
**Report Date:** 24 Nov 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

