



# CONSTRUCTION EQUIPMENT

8000252630 CATERPILLAR 980H 6490 - REAR AXLE



**Sample No:** VCP274419  
**Oil Type:** VOLVO SUPER TRANSMISSION OIL SAE 30  
**Job No:** 8000252630



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP274419</b>   | VCP260228   | VCP251449   | VCP251140   |
| Sample Date   | <b>06 Aug 2020</b> | 09 May 2020 | 27 Dec 2019 | 20 Nov 2019 |
| Machine Hours | <b>14683</b>       | 13928       | 13546       | 13296       |
| Oil Hours     | <b>0</b>           | 2000        | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | Not Chngd   | Not Chngd   |
| Sample Status | <b>NORMAL</b>      | ABNORMAL    | ABNORMAL    | ABNORMAL    |

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## OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>111</b> | 175 | 172 | 179 |
|-------------|-----|------------|-----|-----|-----|



## CONTAMINATION

|           |     |              |    |    |   |
|-----------|-----|--------------|----|----|---|
| Silicon   | ppm | <b>7</b>     | 11 | 10 | 9 |
| Sodium    | ppm | <b>&lt;1</b> | <1 | <1 | 1 |
| Potassium | ppm | <b>1</b>     | 1  | 1  | 1 |

## 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.



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>40</b>    | 93 | 66 | 55 |
| Copper     | ppm | <b>5</b>     | 9  | 9  | 8  |
| Lead       | ppm | <b>0</b>     | <1 | <1 | 0  |
| Tin        | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Aluminum   | ppm | <b>3</b>     | 5  | 4  | 3  |
| Chromium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Molybdenum | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Nickel     | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Titanium   | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>&lt;1</b> | 1  | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>3086</b> | 3232 | 3192 | 3252 |
| Magnesium  | ppm | <b>11</b>   | 11   | 10   | 10   |
| Zinc       | ppm | <b>1275</b> | 1296 | 1303 | 1339 |
| Phosphorus | ppm | <b>1087</b> | 1088 | 1093 | 1089 |
| Barium     | ppm | <b>0</b>    | 0    | <1   | <1   |
| Boron      | ppm | <b>1</b>    | <1   | <1   | <1   |

**Depot:** SHEDAR  
**Unique No:** 5085705  
**Signed:** Wes Davis  
**Report Date:** 12 Aug 2020



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## VOLVO GRAPHS

