



# CONSTRUCTION EQUIPMENT

646159 DIPRO CATERPILLAR 972 2686 - FRONT AXLE



**Sample No:** VCP452310  
**Oil Type:** VOLVO SUPER TRANSMISSION OIL SAE 30  
**Job No:** 646159 DIPRO



## SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP452310   | VCP383065   | --- | --- |
| Sample Date   | 28 Dec 2023 | 19 Jan 2023 | --- | --- |
| Machine Hours | 12902       | 10401       | --- | --- |
| Oil Hours     | 0           | 2000        | --- | --- |
| Oil Changed   | N/A         | Changed     | --- | --- |
| Sample Status | ABNORMAL    | NORMAL      | --- | --- |

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## OIL CONDITION

|             |     |      |      |     |     |
|-------------|-----|------|------|-----|-----|
| Visc @ 40°C | cSt | 93.5 | 89.2 | --- | --- |
|-------------|-----|------|------|-----|-----|



## CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | NEG | --- | --- |
| Silicon   | ppm | 10  | 2   | --- | --- |
| Sodium    | ppm | 1   | 5   | --- | --- |
| Potassium | ppm | 2   | 23  | --- | --- |

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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 | 410 | 40 | --- | --- |
| Copper     | ppm | 62  | 2  | --- | --- |
| Lead       | ppm | 0   | 4  | --- | --- |
| Tin        | ppm | 0   | 1  | --- | --- |
| Aluminum   | ppm | 6   | <1 | --- | --- |
| Chromium   | ppm | 2   | 1  | --- | --- |
| Molybdenum | ppm | 0   | <1 | --- | --- |
| Nickel     | ppm | <1  | <1 | --- | --- |
| Titanium   | ppm | 0   | <1 | --- | --- |
| Silver     | ppm | 0   | <1 | --- | --- |
| Manganese  | ppm | 2   | <1 | --- | --- |
| Vanadium   | ppm | 0   | <1 | --- | --- |



## ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 3146 | 628 | --- | --- |
| Magnesium  | ppm | 16   | 20  | --- | --- |
| Zinc       | ppm | 1268 | 404 | --- | --- |
| Phosphorus | ppm | 1068 | 276 | --- | --- |
| Barium     | ppm | 0    | 0   | --- | --- |
| Boron      | ppm | 0    | 0   | --- | --- |

**Depot:** VOLVO2990  
**Unique No:** 10822958  
**Signed:** Sean Felton  
**Report Date:** 11 Jan 2024



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## GRAPHS

