



# CONSTRUCTION EQUIPMENT

UPAP-PHOENIX 1034614 330144 VOLVO L90G 617701 - HYDRAULIC SYSTEM



**Sample No:** VCP454016  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** 1034614



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP454016</b>   | VCE196007   | DJJ0005944  | DJJ0005928  |
| Sample Date   | <b>03 Jun 2024</b> | 21 Dec 2023 | 10 May 2023 | 21 Jun 2022 |
| Machine Hours | <b>11885</b>       | 11267       | 10493       | 9277        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>N/A</b>         | Changed     | Changed     | Not Changd  |
| Sample Status | <b>ATTENTION</b>   | SEVERE      | ABNORMAL    | ABNORMAL    |

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## OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C      | cSt      | <b>44.3</b> | 43.0 | 41.6 | 42.5 |
| Acid Number (AN) | mg KOH/g | <b>0.35</b> | 0.54 | 0.32 | 0.35 |



## CONTAMINATION

|                   |     |                 |          |          |          |
|-------------------|-----|-----------------|----------|----------|----------|
| Water             | %   | <b>NEG</b>      | NEG      | NEG      | NEG      |
| Particles >4µm    |     | <b>6774</b>     | 79029    | 27591    | 41035    |
| Particles >6µm    |     | <b>1259</b>     | 19915    | 7552     | 14336    |
| Particles >14µm   |     | <b>70</b>       | 811      | 463      | 1620     |
| ISO 4406:1999 (c) |     | <b>20/17/13</b> | 23/21/17 | 22/20/16 | 23/21/18 |
| Silicon           | ppm | <b>4</b>        | 7        | 5        | 5        |
| Sodium            | ppm | <b>2</b>        | 5        | 0        | <1       |
| Potassium         | ppm | <b>3</b>        | 2        | 0        | <1       |

## Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>2</b>     | 6  | 8  | 7  |
| Copper     | ppm | <b>&lt;1</b> | 1  | 1  | 1  |
| Lead       | ppm | <b>0</b>     | 0  | 0  | <1 |
| Tin        | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Aluminum   | ppm | <b>&lt;1</b> | <1 | 0  | 1  |
| Chromium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Molybdenum | ppm | <b>0</b>     | 0  | <1 | <1 |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



## ADDITIVES

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Calcium    | ppm | <b>78</b>    | 38  | 75  | 76  |
| Magnesium  | ppm | <b>5</b>     | 0   | 3   | 6   |
| Zinc       | ppm | <b>472</b>   | 418 | 399 | 452 |
| Phosphorus | ppm | <b>380</b>   | 326 | 317 | 330 |
| Barium     | ppm | <b>&lt;1</b> | 0   | 0   | 2   |
| Boron      | ppm | <b>&lt;1</b> | 0   | 0   | <1  |

**Depot:** UPAPPHO  
**Unique No:** 11071984  
**Signed:** Wes Davis  
**Report Date:** 12 Jun 2024

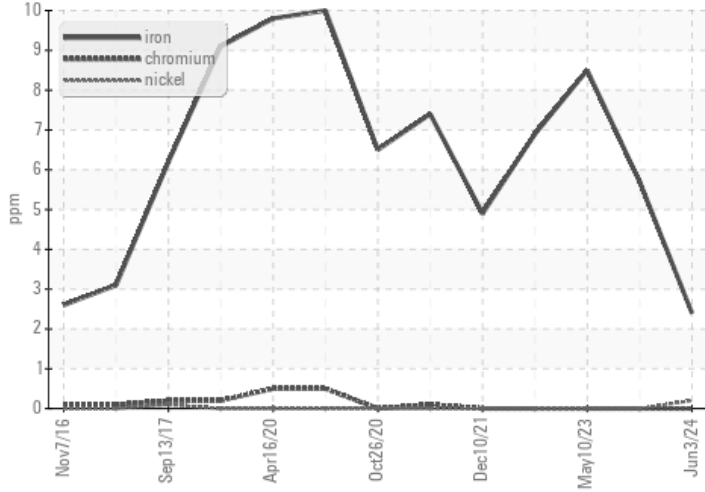


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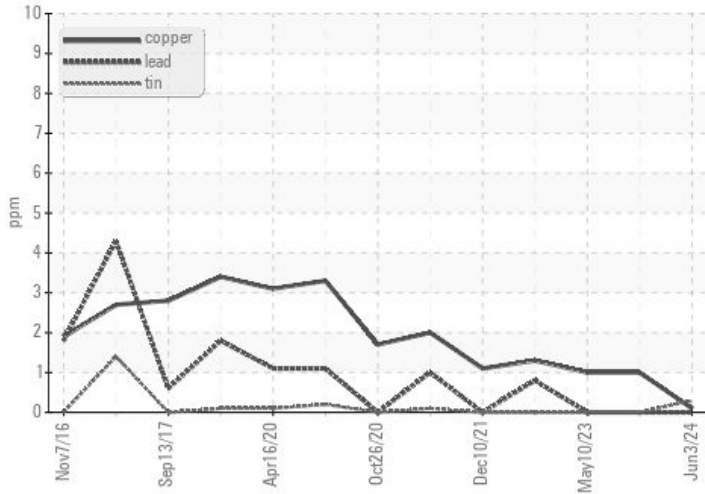


## GRAPHS

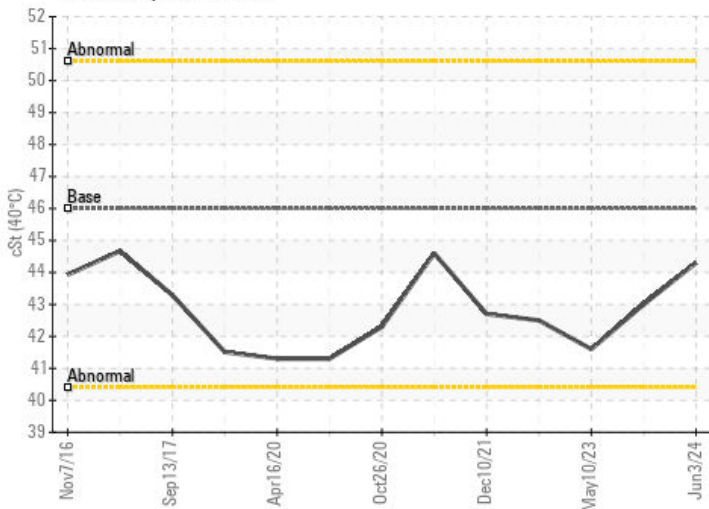
### Ferrous Alloys



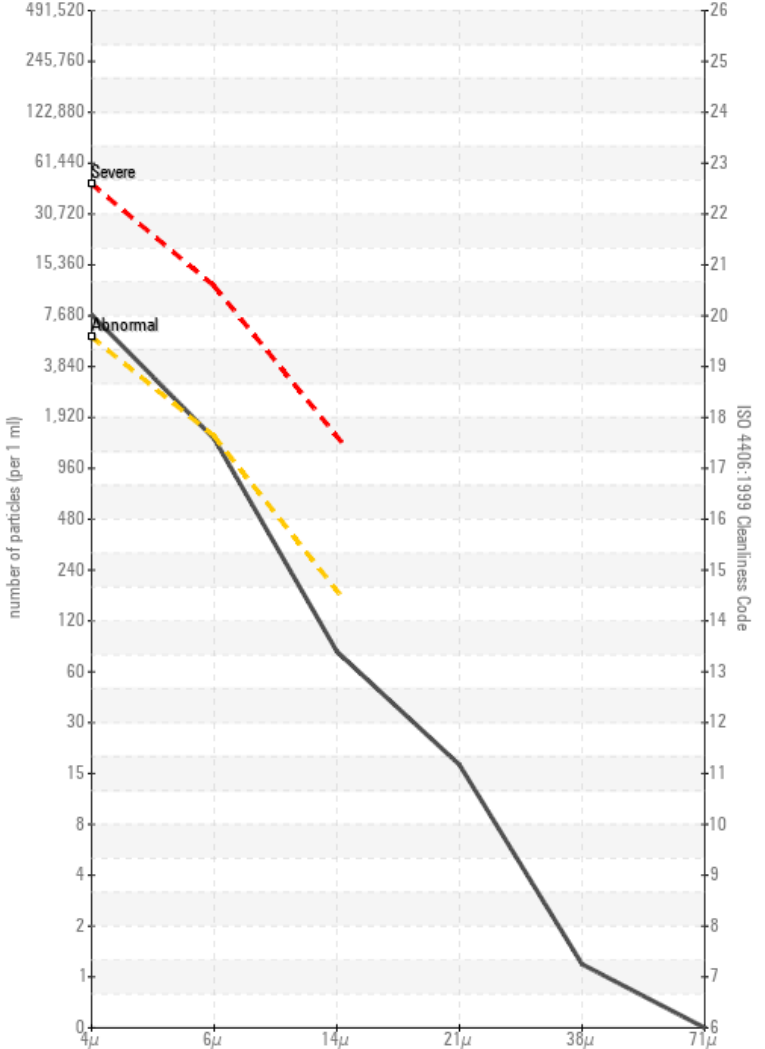
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

