



# CONSTRUCTION EQUIPMENT

## 546761 WASTE MGMT VOLVO L90H 624438 - HYDRAULIC SYSTEM



**Sample No:** VCP451277  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 546761 WASTE MGMT



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP451277</b>   | VCP437649   | VCP431533   | VCP432308   |
| Sample Date   | <b>26 Apr 2024</b> | 26 Jan 2024 | 15 Dec 2023 | 27 Oct 2023 |
| Machine Hours | <b>13898</b>       | 13382       | 12918       | 12363       |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   | Not Chngd   |
| Sample Status | <b>ATTENTION</b>   | SEVERE      | NORMAL      | NORMAL      |

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### OIL CONDITION

|                  |          |             |       |      |      |
|------------------|----------|-------------|-------|------|------|
| Visc @ 40°C      | cSt      | <b>44.1</b> | 45.0  | 43.3 | 43.4 |
| Acid Number (AN) | mg KOH/g | <b>0.57</b> | 0.929 | 0.39 | 0.39 |



### CONTAMINATION

|                   |     |                 |          |          |          |
|-------------------|-----|-----------------|----------|----------|----------|
| Water             | %   | <b>NEG</b>      | NEG      | NEG      | NEG      |
| Particles >4µm    |     | <b>5427</b>     | 67862    | 2564     | 732      |
| Particles >6µm    |     | <b>1006</b>     | 18515    | 446      | 207      |
| Particles >14µm   |     | <b>29</b>       | 1010     | 29       | 24       |
| ISO 4406:1999 (c) |     | <b>20/17/12</b> | 23/21/17 | 19/16/12 | 17/15/12 |
| Silicon           | ppm | <b>2</b>        | 2        | 2        | 2        |
| Sodium            | ppm | <b>2</b>        | <1       | <1       | 0        |
| Potassium         | ppm | <b>&lt;1</b>    | 0        | <1       | 2        |

### Diagnosis

The filter change at the time of sampling has been noted. 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>     | 0  | 4  | 3  |
| Copper     | ppm | <b>&lt;1</b> | 1  | 2  | 2  |
| Lead       | ppm | <b>0</b>     | <1 | 0  | <1 |
| Tin        | ppm | <b>0</b>     | <1 | 0  | 0  |
| Aluminum   | ppm | <b>0</b>     | 0  | 2  | <1 |
| Chromium   | ppm | <b>0</b>     | 0  | 0  | <1 |
| Molybdenum | ppm | <b>2</b>     | <1 | <1 | 2  |
| Nickel     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Titanium   | ppm | <b>0</b>     | <1 | <1 | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>0</b>     | <1 | 0  | 0  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



### ADDITIVES

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Calcium    | ppm | <b>169</b>   | 145 | 173 | 212 |
| Magnesium  | ppm | <b>9</b>     | 6   | 8   | 10  |
| Zinc       | ppm | <b>453</b>   | 464 | 470 | 484 |
| Phosphorus | ppm | <b>365</b>   | 363 | 397 | 364 |
| Barium     | ppm | <b>&lt;1</b> | 0   | 6   | 0   |
| Boron      | ppm | <b>0</b>     | 2   | 2   | 4   |

**Depot:** VOLVO0096  
**Unique No:** 11018653  
**Signed:** Wes Davis  
**Report Date:** 09 May 2024

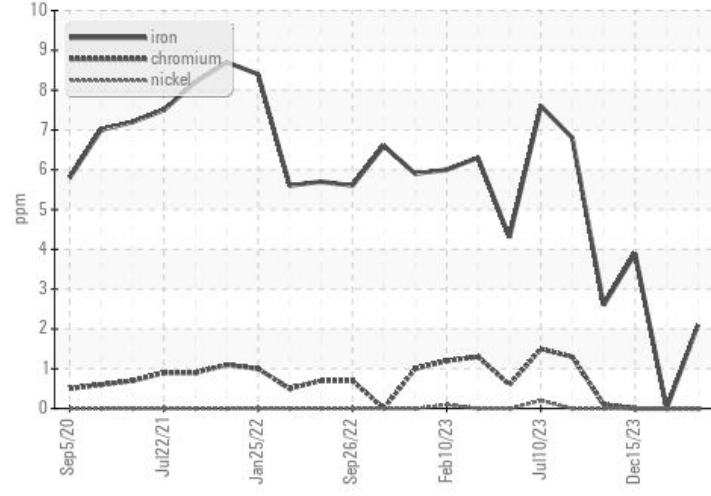


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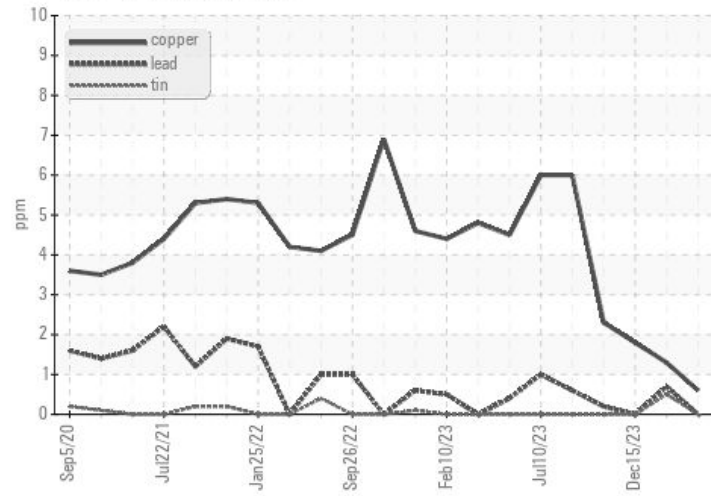


## GRAPHS

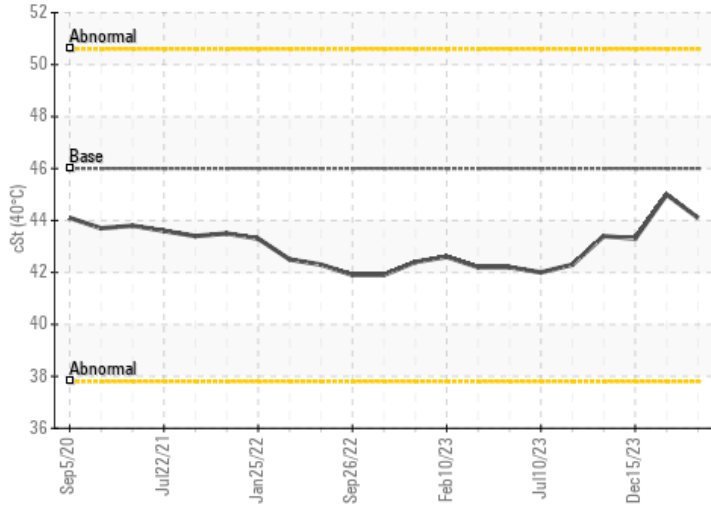
Ferrous Alloys



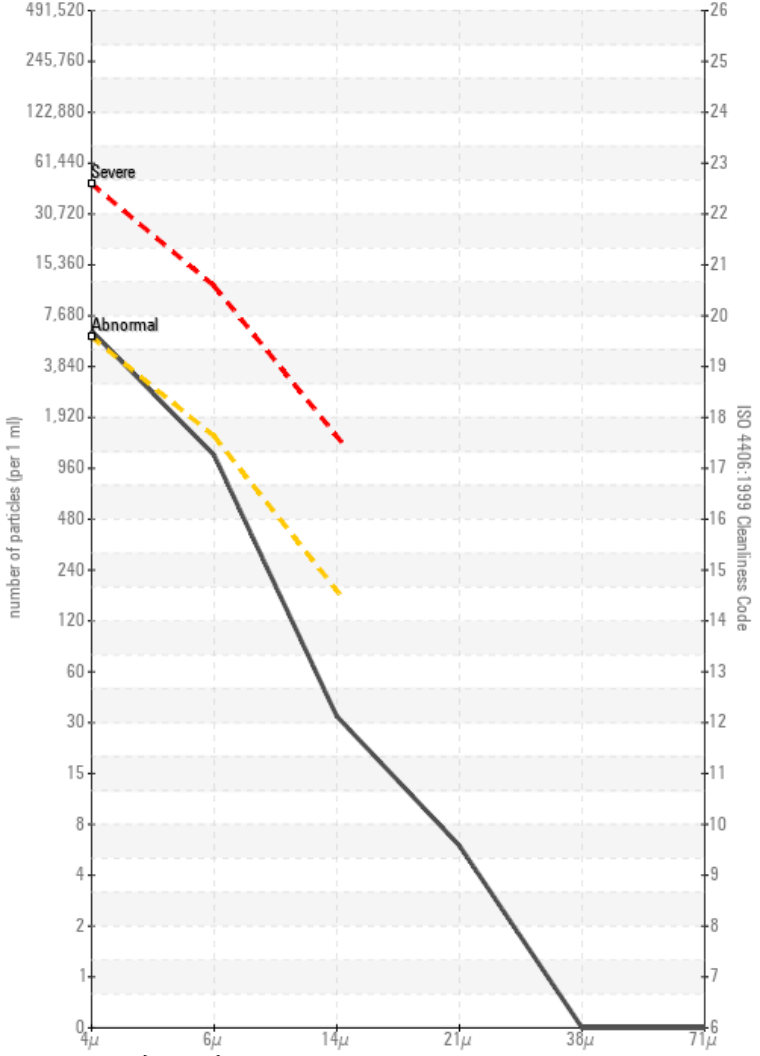
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

