



# CONSTRUCTION EQUIPMENT

## W14767 VOLVO EC750 310197 - HYDRAULIC SYSTEM



**Sample No:** VCP441226  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** W14767



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP441226</b>   | VCP406899   | VCP379550   | VCP384058   |
| Sample Date   | <b>13 Oct 2023</b> | 18 Apr 2023 | 29 Dec 2022 | 06 Oct 2022 |
| Machine Hours | <b>8054</b>        | 7030        | 6527        | 6064        |
| Oil Hours     | <b>1000</b>        | 1000        | 500         | 2000        |
| Oil Changed   | <b>Changed</b>     | Not Chngd   | Not Chngd   | Changed     |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | NORMAL      | NORMAL      |

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### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C      | cSt      | <b>39.7</b> | 39.8 | 41.1 | 40.1 |
| Acid Number (AN) | mg KOH/g | <b>0.41</b> | 0.40 | 0.43 | 0.41 |



### CONTAMINATION

|                   |     |                 |     |          |          |
|-------------------|-----|-----------------|-----|----------|----------|
| Particles >4µm    |     | <b>▲ 83278</b>  | --- | 10526    | 24129    |
| Particles >6µm    |     | <b>▲ 11513</b>  | --- | 986      | 2862     |
| Particles >14µm   |     | <b>■ 204</b>    | --- | 40       | 189      |
| ISO 4406:1999 (c) |     | <b>24/21/15</b> | --- | 21/17/12 | 22/19/15 |
| Silicon           | ppm | <b>■ 19</b>     | 11  | 7        | 9        |
| Sodium            | ppm | <b>■ 2</b>      | 2   | 1        | 2        |
| Potassium         | ppm | <b>■ 2</b>      | 2   | <1       | 1        |

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

|            |     |                |    |    |    |
|------------|-----|----------------|----|----|----|
| Iron       | ppm | <b>■ 16</b>    | 9  | 7  | 12 |
| Copper     | ppm | <b>■ 18</b>    | 13 | 11 | 18 |
| Lead       | ppm | <b>■ &lt;1</b> | 0  | <1 | <1 |
| Tin        | ppm | <b>■ &lt;1</b> | 0  | 0  | <1 |
| Aluminum   | ppm | <b>■ 7</b>     | 5  | 3  | 3  |
| Chromium   | ppm | <b>■ 4</b>     | <1 | <1 | <1 |
| Molybdenum | ppm | <b>■ &lt;1</b> | 2  | 2  | 2  |
| Nickel     | ppm | <b>■ 0</b>     | 0  | 0  | 1  |
| Titanium   | ppm | <b>&lt;1</b>   | 0  | 0  | <1 |
| Silver     | ppm | <b>0</b>       | 0  | 0  | 0  |
| Manganese  | ppm | <b>■ &lt;1</b> | <1 | 0  | <1 |
| Vanadium   | ppm | <b>0</b>       | 0  | 0  | <1 |



### ADDITIVES

|            |     |                |     |     |     |
|------------|-----|----------------|-----|-----|-----|
| Calcium    | ppm | <b>■ 189</b>   | 216 | 261 | 496 |
| Magnesium  | ppm | <b>■ 10</b>    | 20  | 17  | 16  |
| Zinc       | ppm | <b>■ 464</b>   | 487 | 502 | 614 |
| Phosphorus | ppm | <b>■ 345</b>   | 398 | 401 | 471 |
| Barium     | ppm | <b>■ 0</b>     | 0   | 0   | 2   |
| Boron      | ppm | <b>■ &lt;1</b> | 0   | 0   | 5   |

**Depot:** VOLVO0080  
**Unique No:** 10701967  
**Signed:** Wes Davis  
**Report Date:** 23 Oct 2023

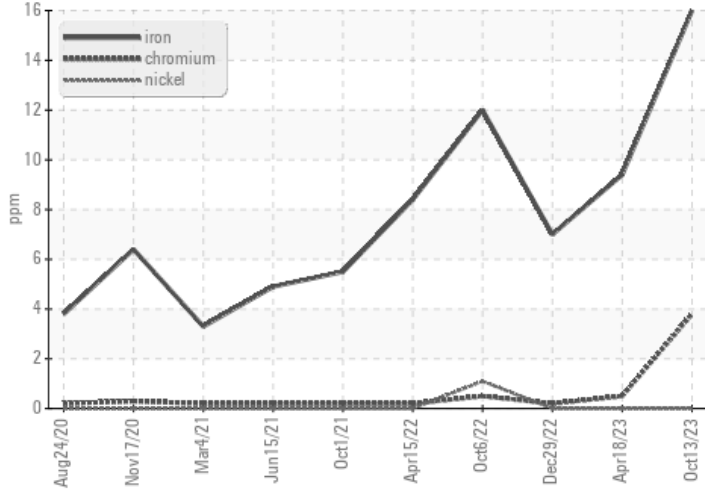


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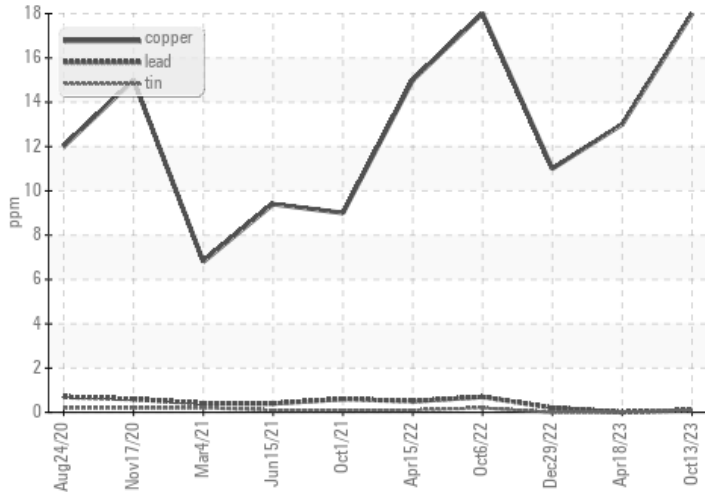


## VOLVO GRAPHS

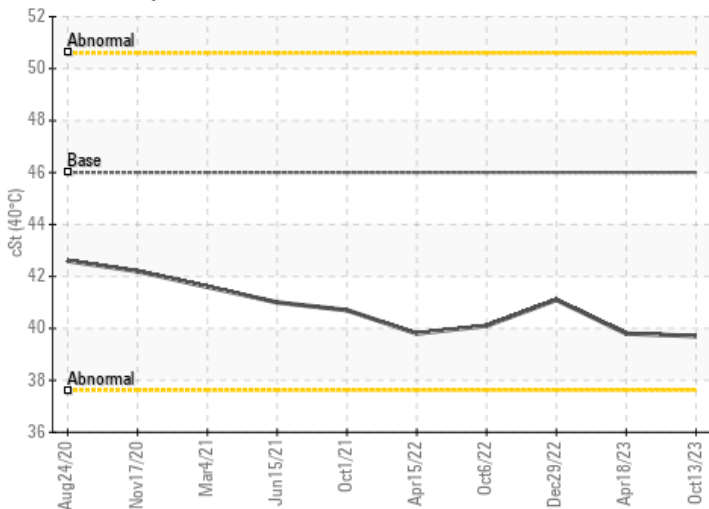
### Ferrous Alloys



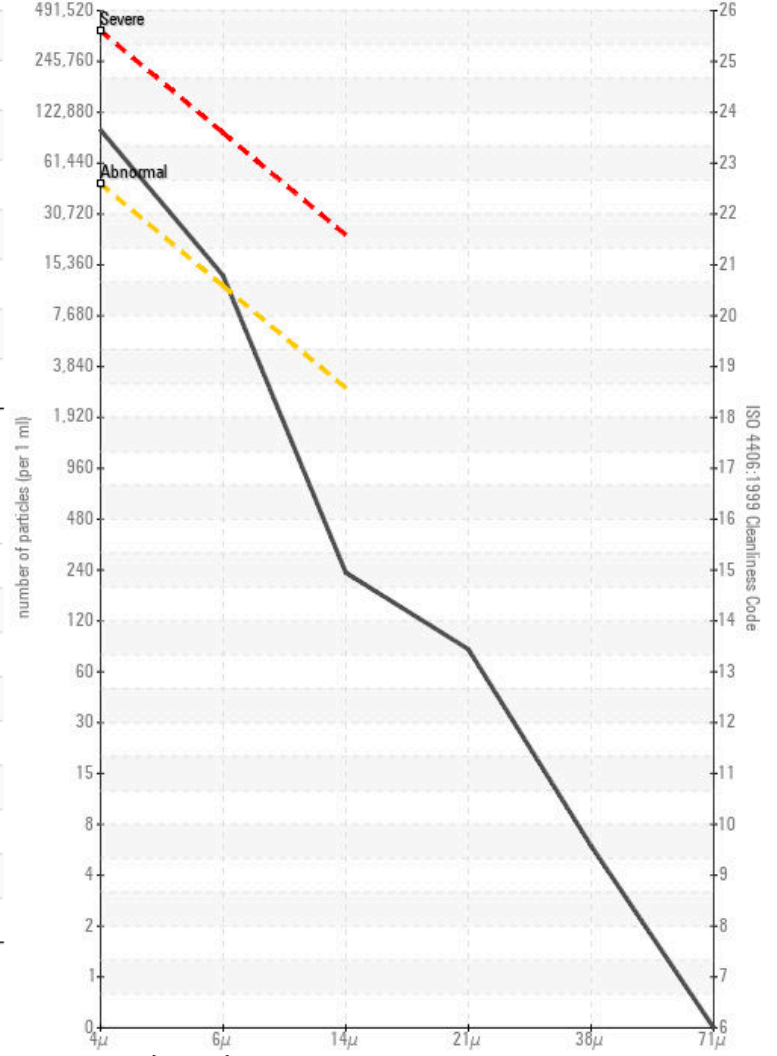
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

