



# CONSTRUCTION EQUIPMENT

## VOLVO L150F 14205 - HYDRAULIC SYSTEM



**Sample No:** VCP385214

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP385214</b>   | VCP359615   | VCP318382   | VCP307555   |
| Sample Date   | <b>09 Aug 2023</b> | 23 Aug 2022 | 11 Jan 2022 | 16 Apr 2021 |
| Machine Hours | <b>24538</b>       | 23260       | 22797       | 22316       |
| Oil Hours     | <b>1079</b>        | 2084        | 1621        | 470         |
| Oil Changed   | <b>Not Chngd</b>   | Changed     | Not Chngd   | Not Chngd   |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    | ABNORMAL    |

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### OIL CONDITION

|                  |          |             |      |       |       |
|------------------|----------|-------------|------|-------|-------|
| Visc @ 40°C      | cSt      | <b>40.2</b> | 40.4 | 41.1  | 39.8  |
| Acid Number (AN) | mg KOH/g | <b>1.04</b> | 1.06 | 1.024 | 1.236 |



### CONTAMINATION

|                   |     |                 |          |     |          |
|-------------------|-----|-----------------|----------|-----|----------|
| Particles >4µm    |     | <b>▲ 35224</b>  | ▲ 135054 | --- | ▲ 49445  |
| Particles >6µm    |     | <b>▲ 6693</b>   | ▲ 50987  | --- | ▲ 10475  |
| Particles >14µm   |     | <b>■ 153</b>    | ▲ 2284   | --- | ▲ 182    |
| ISO 4406:1999 (c) |     | <b>22/20/14</b> | 24/23/18 | --- | 23/21/15 |
| Silicon           | ppm | <b>■ 11</b>     | ■ 11     | ■ 8 | ■ 9      |
| Sodium            | ppm | <b>■ 2</b>      | ■ 5      | ■ 3 | ■ 3      |
| Potassium         | ppm | <b>■ 0</b>      | ■ 0      | ■ 0 | ■ <1     |

### Diagnosis

No corrective action is recommended at this time. 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 high 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>■ 4</b>     | ■ 5  | ■ 4  | ■ 5  |
| Copper     | ppm | <b>■ 2</b>     | ■ <1 | ■ <1 | ■ <1 |
| Lead       | ppm | <b>■ &lt;1</b> | ■ <1 | ■ <1 | ■ 1  |
| Tin        | ppm | <b>■ &lt;1</b> | ■ <1 | ■ 0  | ■ <1 |
| Aluminum   | ppm | <b>■ 2</b>     | ■ 3  | ■ 2  | ■ 2  |
| Chromium   | ppm | <b>■ 0</b>     | ■ <1 | ■ <1 | ■ <1 |
| Molybdenum | ppm | <b>■ 2</b>     | ■ 1  | ■ 1  | ■ 2  |
| Nickel     | ppm | <b>■ 0</b>     | ■ 0  | ■ 0  | ■ 0  |
| Titanium   | ppm | <b>0</b>       | <1   | <1   | <1   |
| Silver     | ppm | <b>0</b>       | <1   | <1   | 0    |
| Manganese  | ppm | <b>■ &lt;1</b> | ■ <1 | ■ <1 | ■ <1 |
| Vanadium   | ppm | <b>&lt;1</b>   | 0    | 0    | 0    |



### ADDITIVES

|            |     |                |        |        |        |
|------------|-----|----------------|--------|--------|--------|
| Calcium    | ppm | <b>■ 2918</b>  | ■ 2496 | ■ 2414 | ■ 2656 |
| Magnesium  | ppm | <b>■ 26</b>    | ■ 21   | ■ 24   | ■ 26   |
| Zinc       | ppm | <b>■ 988</b>   | ■ 924  | ■ 982  | ■ 1045 |
| Phosphorus | ppm | <b>■ 805</b>   | ■ 876  | ■ 850  | ■ 955  |
| Barium     | ppm | <b>■ 0</b>     | ■ 0    | ■ 0    | ■ 0    |
| Boron      | ppm | <b>■ &lt;1</b> | ■ 4    | ■ 0    | ■ 6    |

**Depot:** SCHGRE  
**Unique No:** 10617347  
**Signed:** Don Baldrige  
**Report Date:** 24 Aug 2023

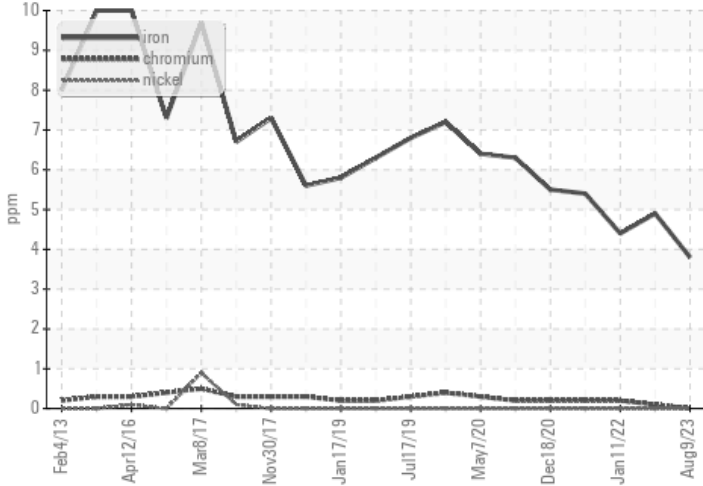


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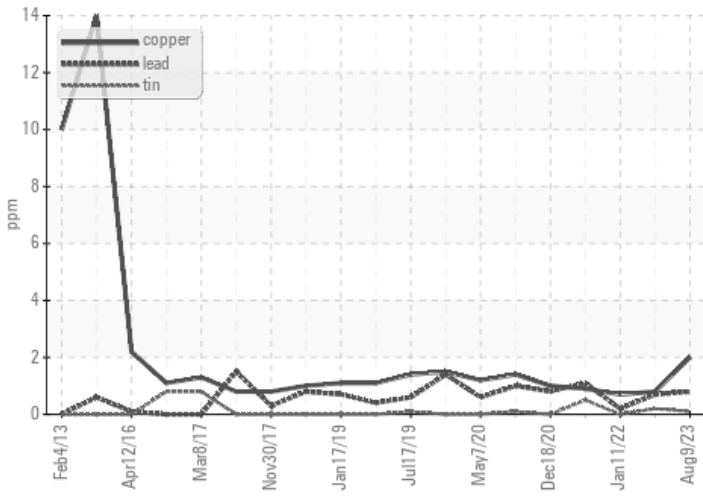


## GRAPHS

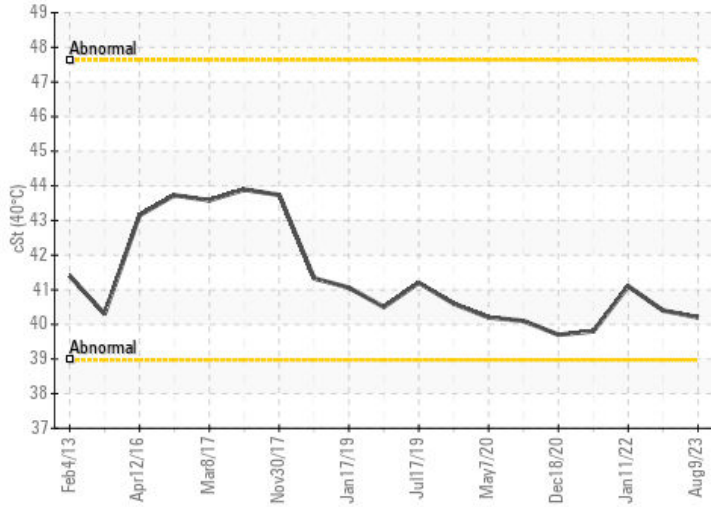
Ferrous Alloys



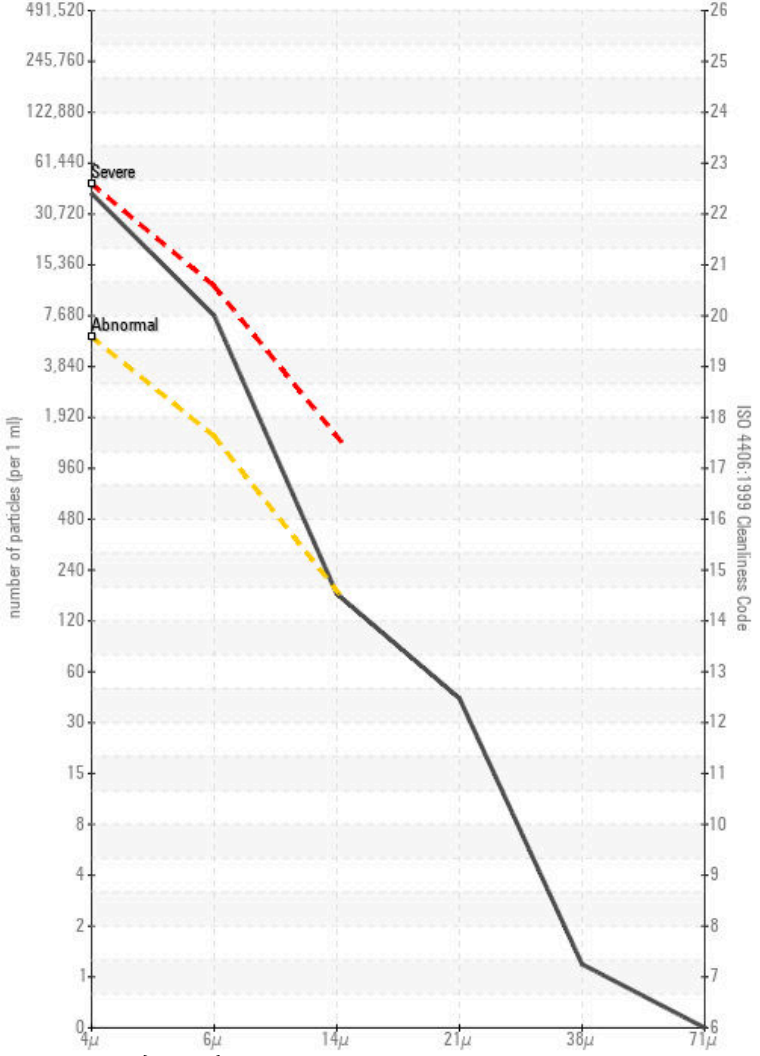
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

