



# CONSTRUCTION EQUIPMENT

## 580533 CITRUS CO LF VOLVO L110H 632401 - HYDRAULIC SYSTEM



**Sample No:** VCP394258  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 580533 CITRUS CO LF



### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP394258   | VCP379681   | --- | --- |
| Sample Date   | 26 Jul 2023 | 02 Feb 2023 | --- | --- |
| Machine Hours | 2144        | 1092        | --- | --- |
| Oil Hours     | 2144        | 1000        | --- | --- |
| Oil Changed   | Not Chngd   | Not Chngd   | --- | --- |
| Sample Status | NORMAL      | ABNORMAL    | --- | --- |

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### OIL CONDITION

|                  |          |      |      |     |     |
|------------------|----------|------|------|-----|-----|
| Visc @ 40°C      | cSt      | 42.3 | 43.2 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.34 | 0.30 | --- | --- |



### CONTAMINATION

|                   |     |          |          |     |     |
|-------------------|-----|----------|----------|-----|-----|
| Particles >4µm    |     | 11328    | 102625   | --- | --- |
| Particles >6µm    |     | 1517     | 33101    | --- | --- |
| Particles >14µm   |     | 39       | 1639     | --- | --- |
| ISO 4406:1999 (c) |     | 21/18/12 | 24/22/18 | --- | --- |
| Silicon           | ppm | 4        | 5        | --- | --- |
| Sodium            | ppm | 2        | <1       | --- | --- |
| Potassium         | ppm | 0        | <1       | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

|            |     |    |    |     |     |
|------------|-----|----|----|-----|-----|
| Iron       | ppm | 7  | 4  | --- | --- |
| Copper     | ppm | 2  | 2  | --- | --- |
| Lead       | ppm | <1 | 1  | --- | --- |
| Tin        | ppm | 0  | <1 | --- | --- |
| Aluminum   | ppm | 2  | 2  | --- | --- |
| Chromium   | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | <1 | <1 | --- | --- |
| Nickel     | ppm | 0  | 0  | --- | --- |
| Titanium   | ppm | 0  | <1 | --- | --- |
| Silver     | ppm | 0  | 0  | --- | --- |
| Manganese  | ppm | <1 | <1 | --- | --- |
| Vanadium   | ppm | <1 | 0  | --- | --- |



### ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 158 | 184 | --- | --- |
| Magnesium  | ppm | 3   | 6   | --- | --- |
| Zinc       | ppm | 458 | 448 | --- | --- |
| Phosphorus | ppm | 358 | 355 | --- | --- |
| Barium     | ppm | 0   | 0   | --- | --- |
| Boron      | ppm | <1  | <1  | --- | --- |

**Depot:** VOLVO0093  
**Unique No:** 10602070  
**Signed:** Wes Davis  
**Report Date:** 14 Aug 2023

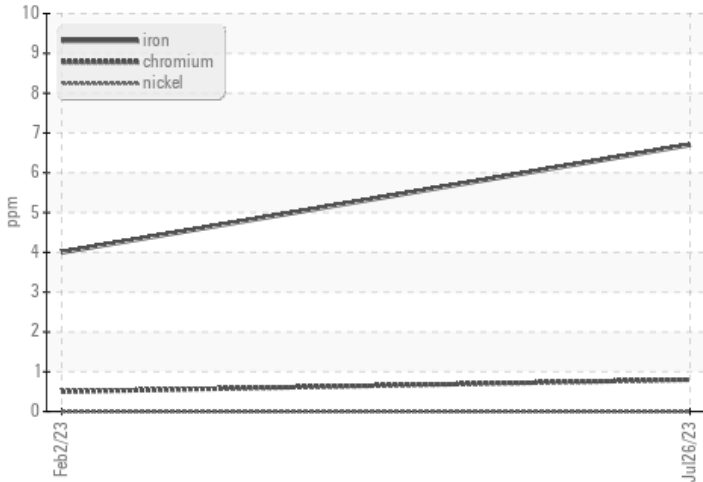


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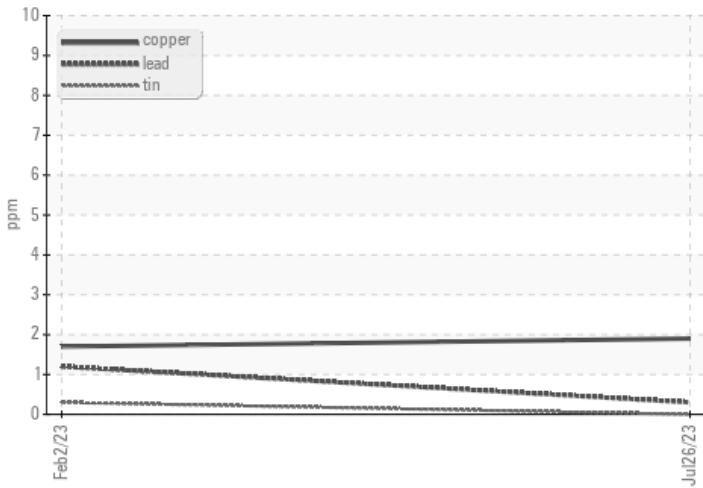


## VOLVO GRAPHS

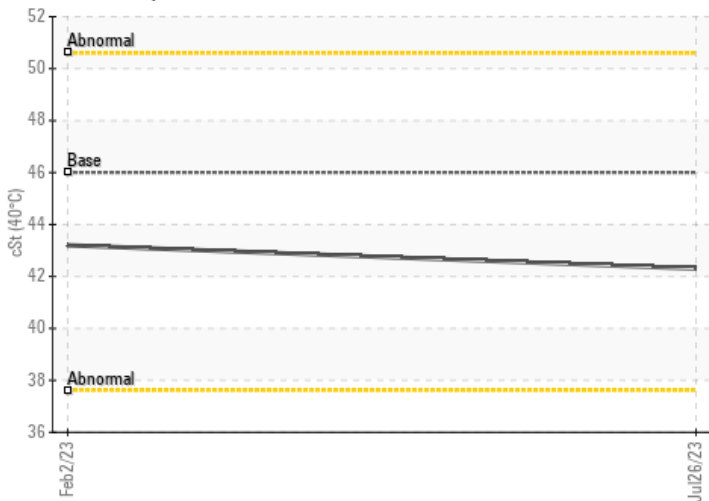
### Ferrous Alloys



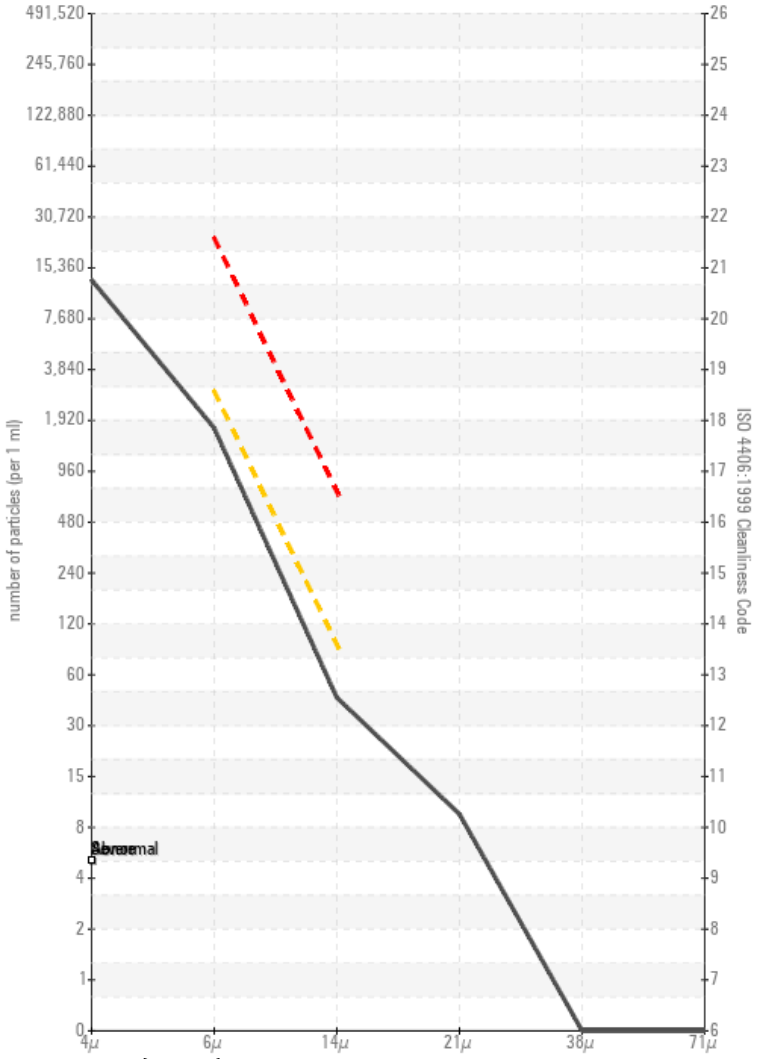
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

