



# CONSTRUCTION EQUIPMENT

## 580298 VOLVO L220H 3368 - HYDRAULIC SYSTEM



**Sample No:** VCP415562  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 580298



**BLUE GOOSE GROWERS**  
 16059 W ORANGE AVE  
 FT PIERCE, FL  
 US 34945  
 Contact: SERVICE MANAGER

T: (772)461-3020  
 F:

### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP415562</b>   | VCP369997   | VCP377465   | VCP349421   |
| Sample Date   | <b>18 Jul 2023</b> | 13 Oct 2022 | 10 May 2022 | 27 Jan 2022 |
| Machine Hours | <b>3780</b>        | 2139        | 1160        | 480         |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   | Not Chngd   |
| Sample Status | <b>NORMAL</b>      | ATTENTION   | NORMAL      | ATTENTION   |

### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C      | cSt      | <b>41.0</b> | 41.3 | 42.0 | 43.1 |
| Acid Number (AN) | mg KOH/g | <b>0.36</b> | 0.39 | 0.40 | 0.36 |

### CONTAMINATION

|                   |     |                 |          |          |          |
|-------------------|-----|-----------------|----------|----------|----------|
| Particles >4µm    |     | <b>35782</b>    | 80366    | 17513    | 14957    |
| Particles >6µm    |     | <b>1152</b>     | ▲ 2963   | 1135     | 2063     |
| Particles >14µm   |     | <b>68</b>       | 18       | 33       | ▲ 117    |
| ISO 4406:1999 (c) |     | <b>22/17/13</b> | 24/19/11 | 21/17/12 | 21/18/14 |
| Silicon           | ppm | <b>1</b>        | 2        | <1       | <1       |
| Sodium            | ppm | <b>4</b>        | 2        | <1       | <1       |
| Potassium         | ppm | <b>0</b>        | 0        | 0        | 0        |

### 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 | <b>6</b>     | 3  | 2  | 2  |
| Copper     | ppm | <b>3</b>     | 2  | 2  | 1  |
| Lead       | ppm | <b>0</b>     | 0  | <1 | <1 |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Chromium   | ppm | <b>1</b>     | 0  | 0  | <1 |
| Molybdenum | ppm | <b>0</b>     | 0  | 0  | <1 |
| Nickel     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Titanium   | ppm | <b>&lt;1</b> | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | <1 | <1 | 0  |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 0  | 0  |
| Vanadium   | ppm | <b>&lt;1</b> | <1 | 0  | 0  |

### ADDITIVES

|            |     |            |     |     |     |
|------------|-----|------------|-----|-----|-----|
| Calcium    | ppm | <b>50</b>  | 38  | 50  | 50  |
| Magnesium  | ppm | <b>1</b>   | 0   | 0   | <1  |
| Zinc       | ppm | <b>431</b> | 454 | 423 | 432 |
| Phosphorus | ppm | <b>350</b> | 356 | 359 | 322 |
| Barium     | ppm | <b>0</b>   | 0   | 0   | 0   |
| Boron      | ppm | <b>0</b>   | 0   | 1   | 0   |

**Depot:** BLUFOR  
**Unique No:** 10565659  
**Signed:** Wes Davis  
**Report Date:** 24 Jul 2023

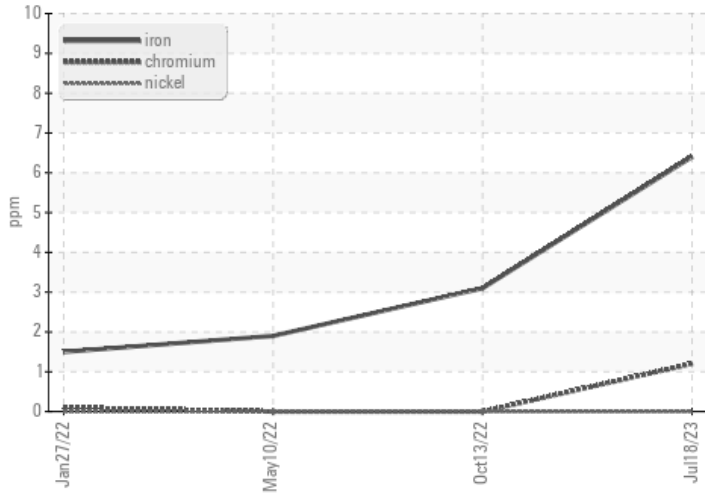


# CONSTRUCTION EQUIPMENT

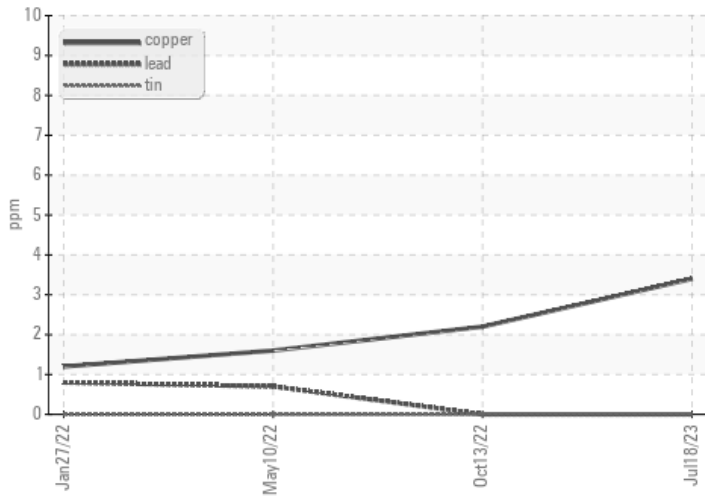


## VOLVO GRAPHS

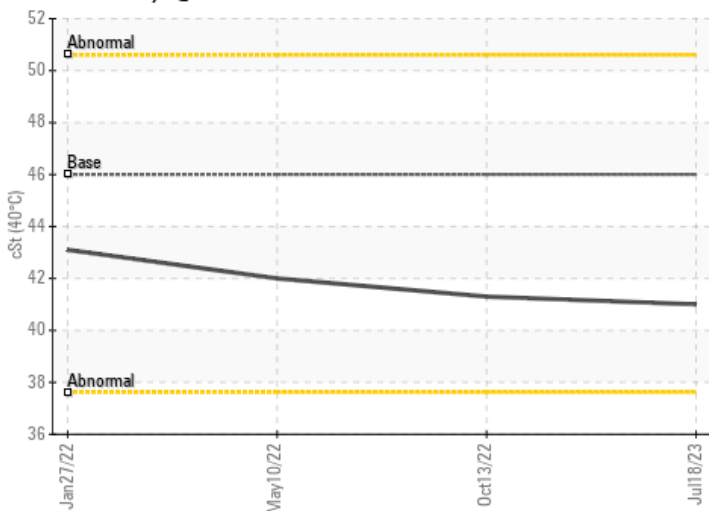
Ferrous Alloys



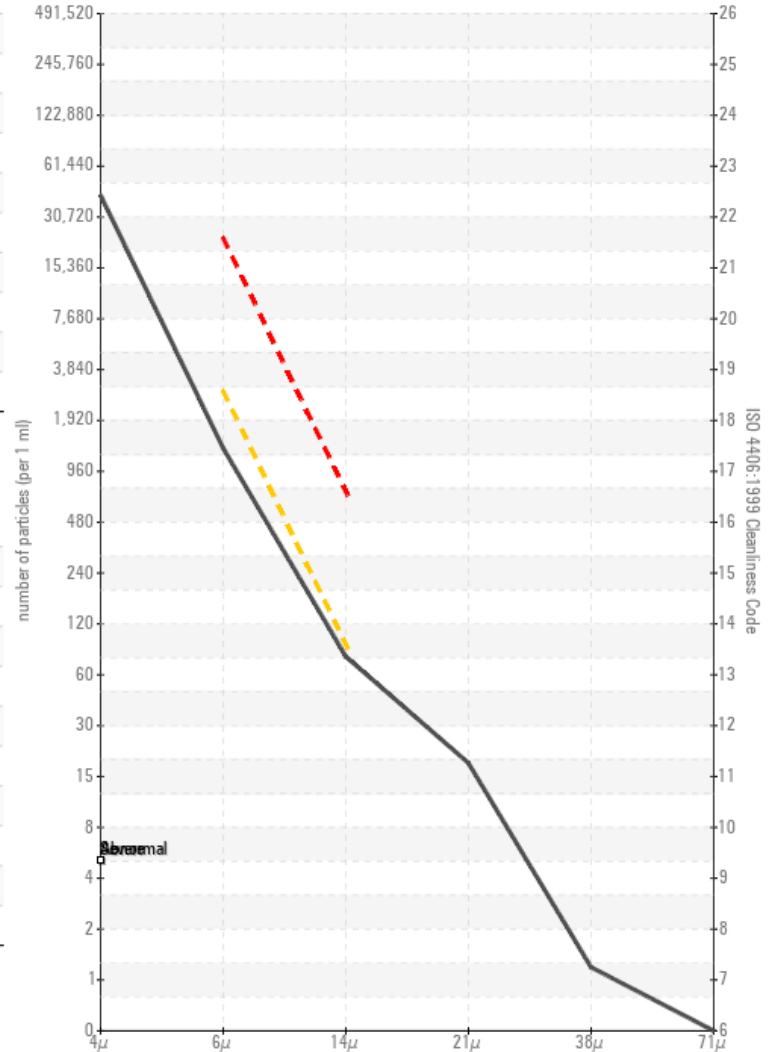
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

