



# CONSTRUCTION EQUIPMENT

## WASTE CONNECTIONS VOLVO L35GS 3424291 - HYDRAULIC SYSTEM



**Sample No:** VCP439867  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** WASTE CONNECTIONS



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



### SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP439867</b>   | VCP429342   | VCP365198   | --- |
| Sample Date   | <b>03 Jul 2024</b> | 18 Dec 2023 | 05 Oct 2023 | --- |
| Machine Hours | <b>13683</b>       | 12495       | 12010       | --- |
| Oil Hours     | <b>0</b>           | 0           | 0           | --- |
| Oil Changed   | <b>Not Changd</b>  | N/A         | Not Changd  | --- |
| Sample Status | <b>ABNORMAL</b>    | ATTENTION   | ABNORMAL    | --- |



### OIL CONDITION

|                  |          |             |      |      |     |
|------------------|----------|-------------|------|------|-----|
| Visc @ 40°C      | cSt      | <b>49.2</b> | 43.7 | 42.6 | --- |
| Acid Number (AN) | mg KOH/g | <b>0.41</b> | 0.44 | 0.48 | --- |



### CONTAMINATION

|                   |     |                 |         |          |     |
|-------------------|-----|-----------------|---------|----------|-----|
| Water             | %   | <b>NEG</b>      | NEG     | NEG      | --- |
| Particles >4µm    |     | <b>38890</b>    | 13176   | 16896    | --- |
| Particles >6µm    |     | <b>▲ 10860</b>  | 38      | ▲ 6667   | --- |
| Particles >14µm   |     | <b>▲ 498</b>    | 4       | ▲ 582    | --- |
| ISO 4406:1999 (c) |     | <b>22/21/16</b> | 21/12/9 | 21/20/16 | --- |
| Silicon           | ppm | <b>&lt;1</b>    | <1      | 1        | --- |
| Sodium            | ppm | <b>2</b>        | 0       | <1       | --- |
| Potassium         | ppm | <b>0</b>        | 2       | <1       | --- |



### WEAR METALS

|            |     |              |    |   |     |
|------------|-----|--------------|----|---|-----|
| Iron       | ppm | <b>&lt;1</b> | 3  | 3 | --- |
| Copper     | ppm | <b>&lt;1</b> | 2  | 1 | --- |
| Lead       | ppm | <b>0</b>     | <1 | 0 | --- |
| Tin        | ppm | <b>0</b>     | <1 | 0 | --- |
| Aluminum   | ppm | <b>&lt;1</b> | 2  | 3 | --- |
| Chromium   | ppm | <b>0</b>     | 0  | 0 | --- |
| Molybdenum | ppm | <b>&lt;1</b> | 4  | 0 | --- |
| Nickel     | ppm | <b>0</b>     | 0  | 0 | --- |
| Titanium   | ppm | <b>0</b>     | <1 | 0 | --- |
| Silver     | ppm | <b>0</b>     | 0  | 0 | --- |
| Manganese  | ppm | <b>0</b>     | <1 | 0 | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | 0 | --- |



### ADDITIVES

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Calcium    | ppm | <b>77</b>    | 162 | 79  | --- |
| Magnesium  | ppm | <b>3</b>     | 9   | 7   | --- |
| Zinc       | ppm | <b>371</b>   | 470 | 440 | --- |
| Phosphorus | ppm | <b>324</b>   | 373 | 337 | --- |
| Barium     | ppm | <b>0</b>     | 0   | 0   | --- |
| Boron      | ppm | <b>&lt;1</b> | 10  | 1   | --- |

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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.

**Depot:** VOLVO0093  
**Unique No:** 11123625  
**Signed:** Wes Davis  
**Report Date:** 15 Jul 2024

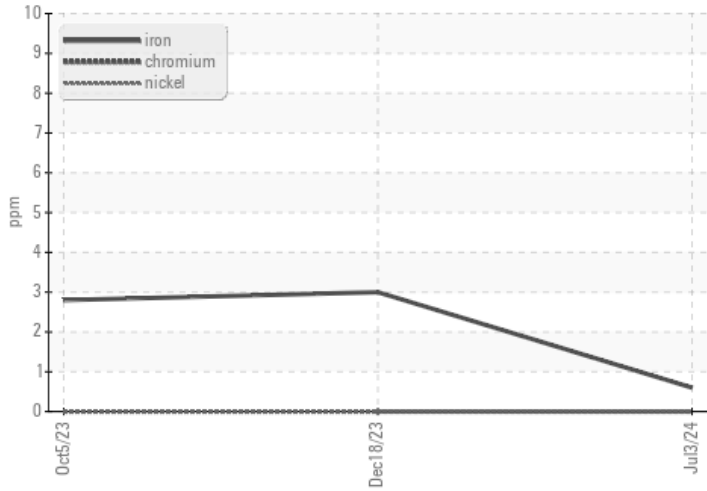


# CONSTRUCTION EQUIPMENT

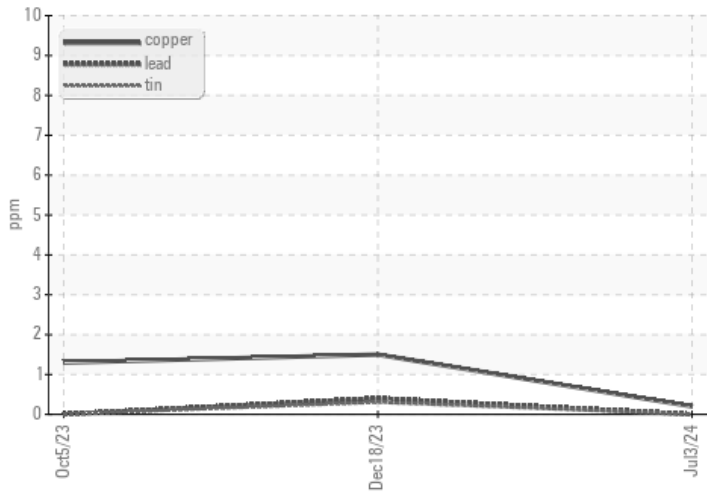


## VOLVO GRAPHS

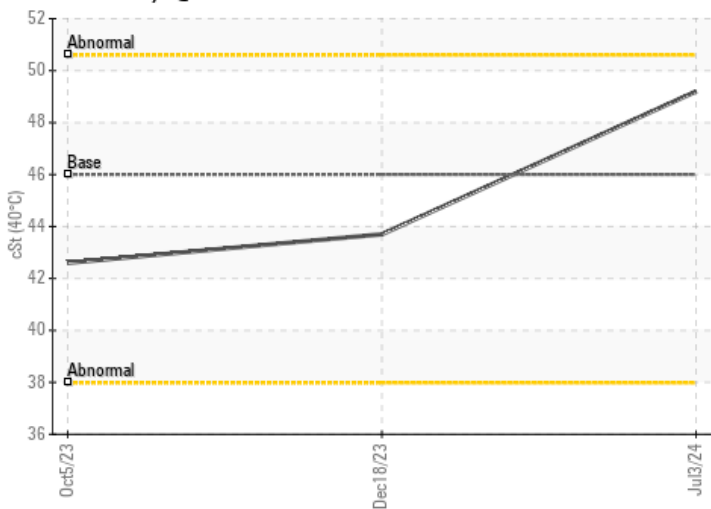
### Ferrous Alloys



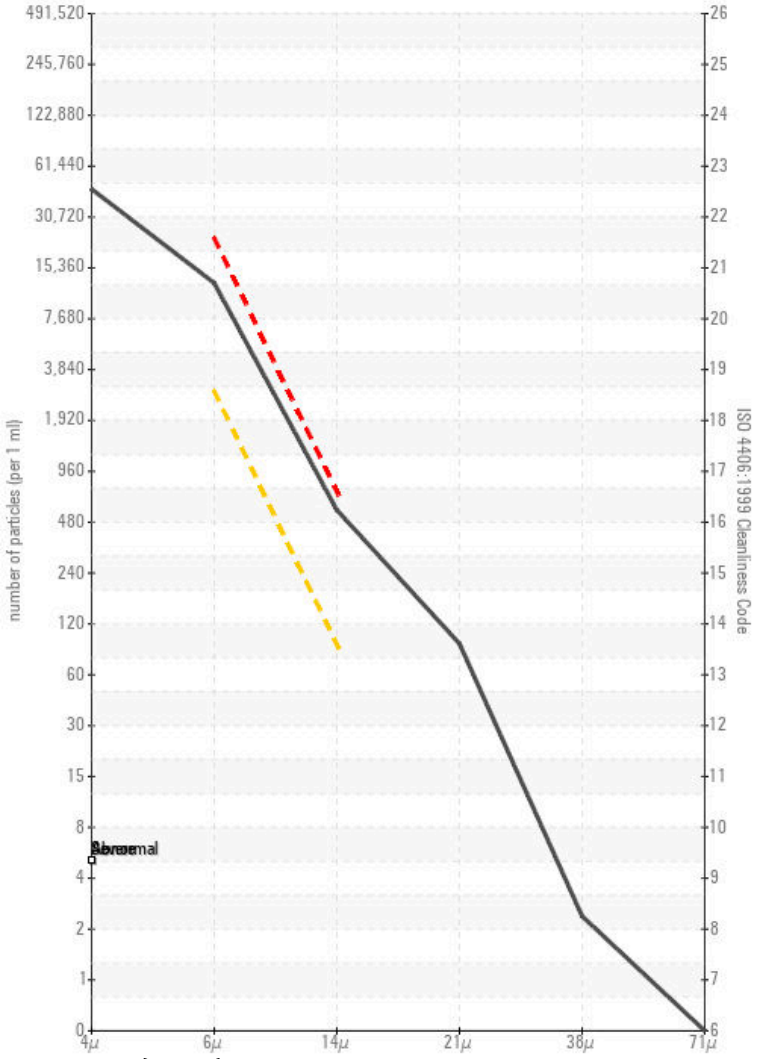
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

