



# CONSTRUCTION EQUIPMENT

## SPM674735-10 VOLVO EC950FL 410112 - HYDRAULIC SYSTEM



**Sample No:** VCP438446  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SPM674735-10



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP438446   | --- | --- | --- |
| Sample Date   | 17 Feb 2024 | --- | --- | --- |
| Machine Hours | 1239        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302



### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 40°C      | cSt      | █ 40.6 | --- | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.60 | --- | --- | --- |



### CONTAMINATION

|                   |     |          |     |     |     |
|-------------------|-----|----------|-----|-----|-----|
| Water             | %   | NEG      | --- | --- | --- |
| Particles >4µm    |     | ▲ 30501  | --- | --- | --- |
| Particles >6µm    |     | ▲ 4970   | --- | --- | --- |
| Particles >14µm   |     | ▲ 604    | --- | --- | --- |
| ISO 4406:1999 (c) |     | 22/19/16 | --- | --- | --- |
| Silicon           | ppm | █ 4      | --- | --- | --- |
| Sodium            | ppm | █ 0      | --- | --- | --- |
| Potassium         | ppm | █ 2      | --- | --- | --- |



### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 3  | --- | --- | --- |
| Copper     | ppm | █ 13 | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ 0  | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 0  | --- | --- | --- |
| Nickel     | ppm | █ 0  | --- | --- | --- |
| Titanium   | ppm | 0    | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | █ 0  | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



### ADDITIVES

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Calcium    | ppm | █ 92  | --- | --- | --- |
| Magnesium  | ppm | █ <1  | --- | --- | --- |
| Zinc       | ppm | █ 523 | --- | --- | --- |
| Phosphorus | ppm | █ 389 | --- | --- | --- |
| Barium     | ppm | █ 3   | --- | --- | --- |
| Boron      | ppm | █ 0   | --- | --- | --- |

### 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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. 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:** VOLVO0090  
**Unique No:** 10887765  
**Signed:** Wes Davis  
**Report Date:** 21 Feb 2024

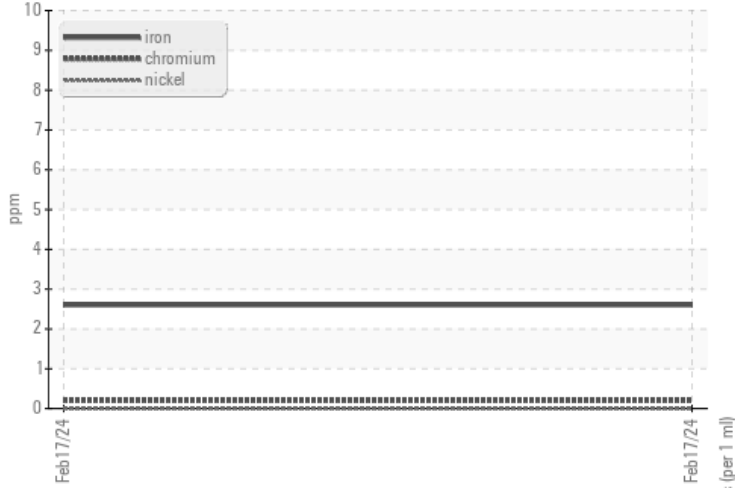


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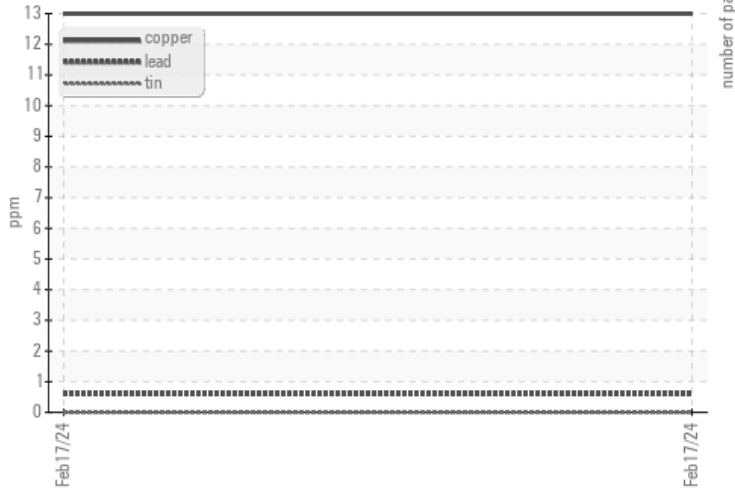


## VOLVO GRAPHS

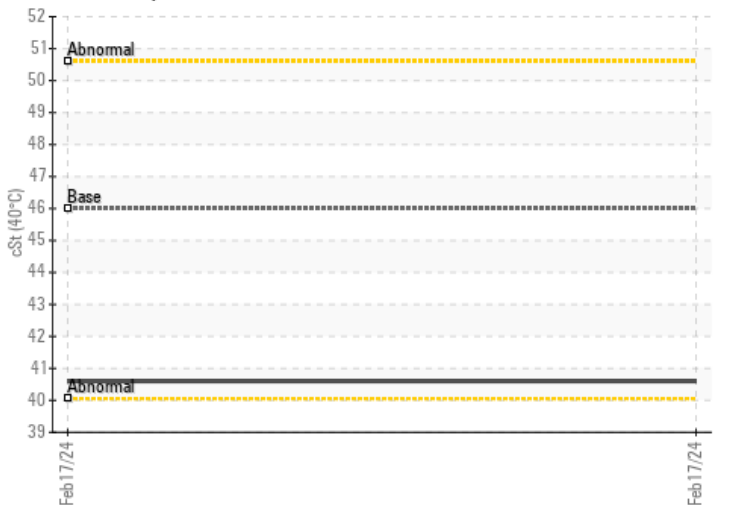
### Ferrous Alloys



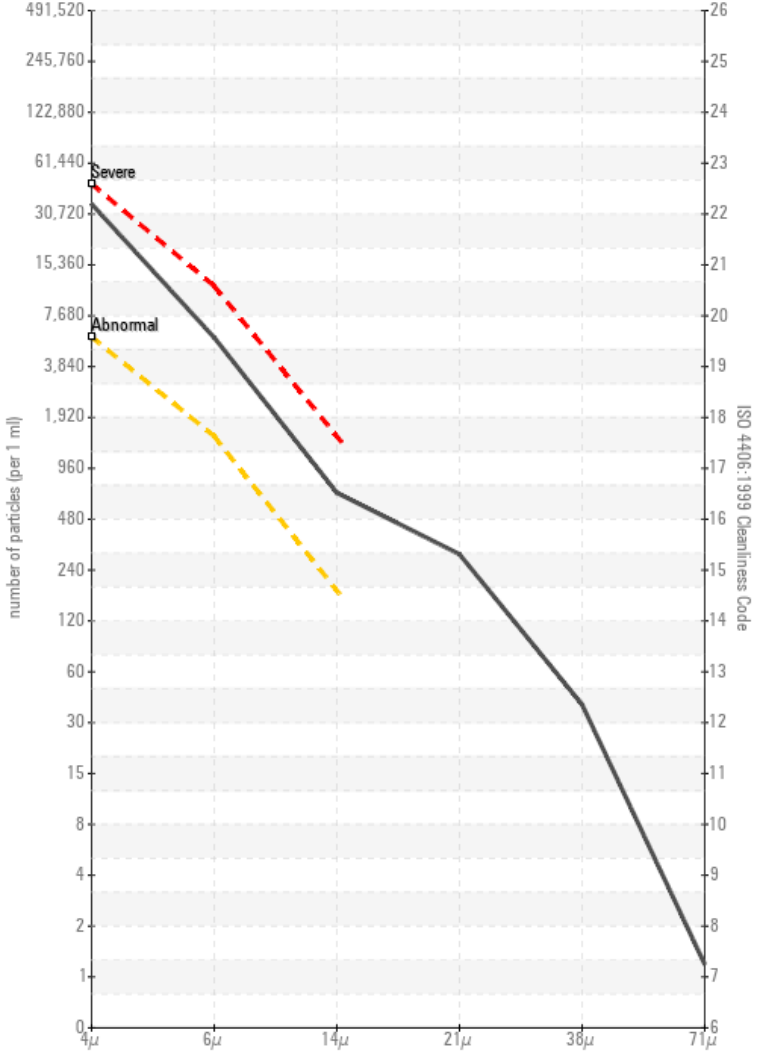
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

