



# CONSTRUCTION EQUIPMENT

## SPM619136-10 CARMUES VOLVO A60H 350290 - HYDRAULIC SYSTEM



**Sample No:** VCP433468  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM619136-10 CARMUES



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP433468   | --- | --- | --- |
| Sample Date   | 12 Oct 2023 | --- | --- | --- |
| Machine Hours | 1083        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 40°C      | cSt      | █ 42.8 | --- | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.39 | --- | --- | --- |



### CONTAMINATION

|                   |     |          |     |     |     |
|-------------------|-----|----------|-----|-----|-----|
| Particles >4µm    |     | ▲ 15896  | --- | --- | --- |
| Particles >6µm    |     | ▲ 3349   | --- | --- | --- |
| Particles >14µm   |     | █ 116    | --- | --- | --- |
| ISO 4406:1999 (c) |     | 21/19/14 | --- | --- | --- |
| Silicon           | ppm | █ 4      | --- | --- | --- |
| Sodium            | ppm | █ 0      | --- | --- | --- |
| Potassium         | ppm | █ 2      | --- | --- | --- |

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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.



### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 3  | --- | --- | --- |
| Copper     | ppm | █ 2  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ 2  | --- | --- | --- |
| Molybdenum | ppm | █ <1 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | █ 0  | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



### ADDITIVES

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Calcium    | ppm | █ 78  | --- | --- | --- |
| Magnesium  | ppm | █ 0   | --- | --- | --- |
| Zinc       | ppm | █ 416 | --- | --- | --- |
| Phosphorus | ppm | █ 332 | --- | --- | --- |
| Barium     | ppm | █ 0   | --- | --- | --- |
| Boron      | ppm | █ 0   | --- | --- | --- |

**Depot:** VOLVO2990  
**Unique No:** 10714231  
**Signed:** Wes Davis  
**Report Date:** 30 Oct 2023

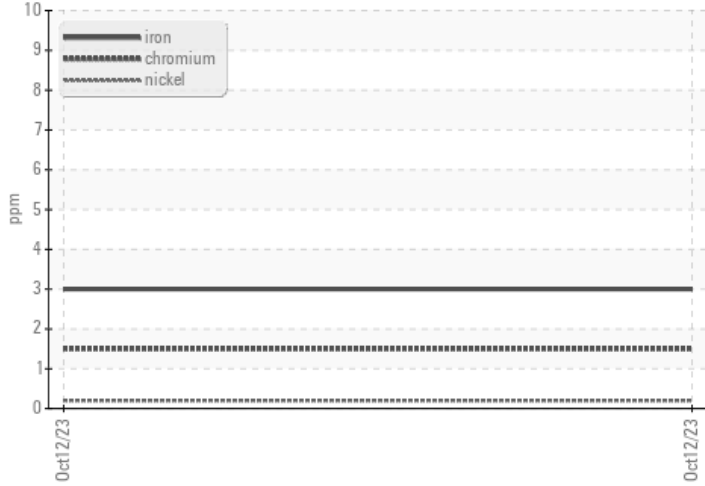


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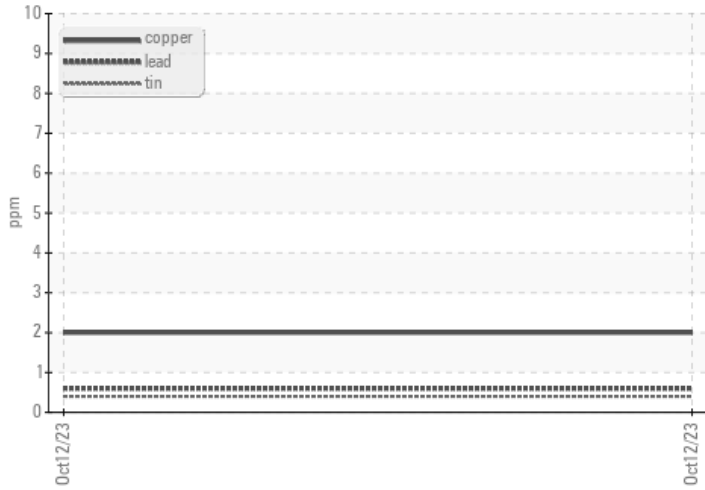


## GRAPHS

### Ferrous Alloys



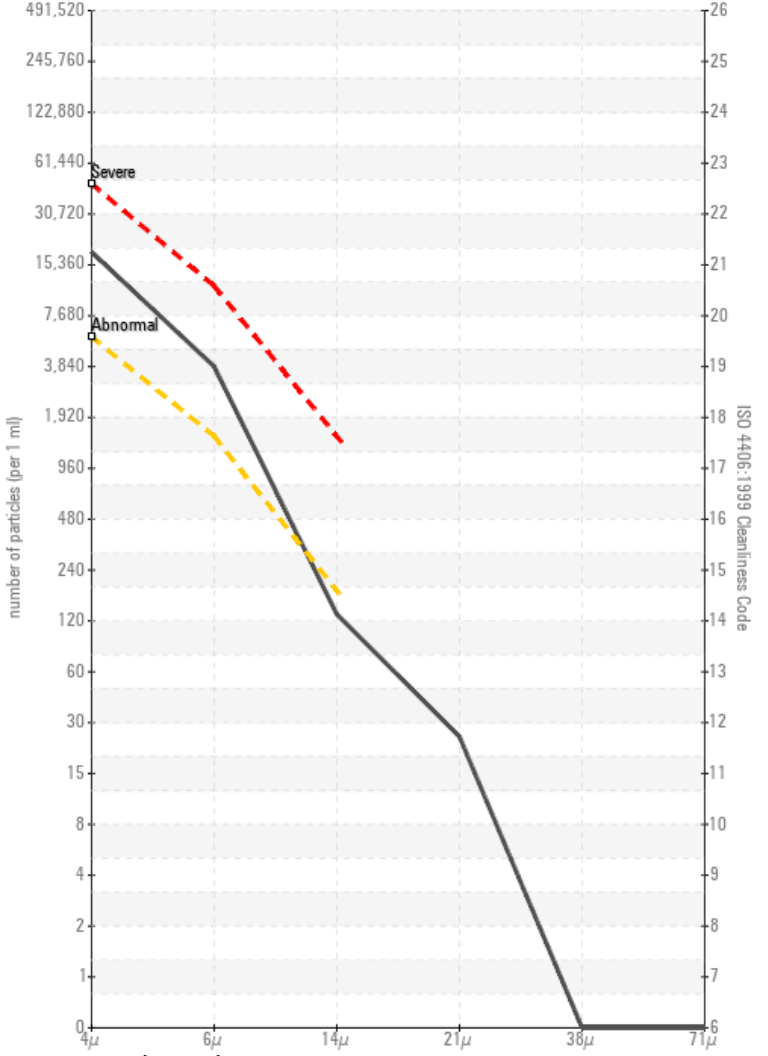
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

