



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352349 - HYDRAULIC SYSTEM



**Sample No:** VCP392525

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP392525</b>   | VCP406462   | VCP401034   | VCP406798   |
| Sample Date   | <b>30 Oct 2023</b> | 29 Aug 2023 | 19 Jul 2023 | 02 May 2023 |
| Machine Hours | <b>6234</b>        | 5785        | 5478        | 4995        |
| Oil Hours     | <b>756</b>         | 307         | 1960        | 1477        |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Changed     | Not Chngd   |
| Sample Status | <b>ATTENTION</b>   | NORMAL      | NORMAL      | ATTENTION   |



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### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C      | cSt      | <b>40.2</b> | 40.3 | 45.6 | 40.6 |
| Acid Number (AN) | mg KOH/g | <b>0.89</b> | 0.87 | 0.92 | 0.81 |



### CONTAMINATION

|                   |     |                 |          |          |          |
|-------------------|-----|-----------------|----------|----------|----------|
| Particles >4µm    |     | <b>9081</b>     | 7810     | 860      | 22454    |
| Particles >6µm    |     | <b>2742</b>     | 2503     | 243      | 6338     |
| Particles >14µm   |     | <b>184</b>      | 104      | 18       | 259      |
| ISO 4406:1999 (c) |     | <b>20/19/15</b> | 20/19/14 | 17/15/11 | 22/20/15 |
| Silicon           | ppm | <b>12</b>       | 11       | 11       | 11       |
| Sodium            | ppm | <b>0</b>        | 3        | 2        | 4        |
| Potassium         | ppm | <b>2</b>        | 0        | 0        | 0        |

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

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



### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>2546</b> | 2423 | 1959 | 1844 |
| Magnesium  | ppm | <b>19</b>   | 18   | 16   | 14   |
| Zinc       | ppm | <b>922</b>  | 866  | 786  | 751  |
| Phosphorus | ppm | <b>728</b>  | 697  | 638  | 618  |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>0</b>    | <1   | 0    | 1    |

**Depot:** SCHGRE  
**Unique No:** 10736607  
**Signed:** Don Baldrige  
**Report Date:** 13 Nov 2023

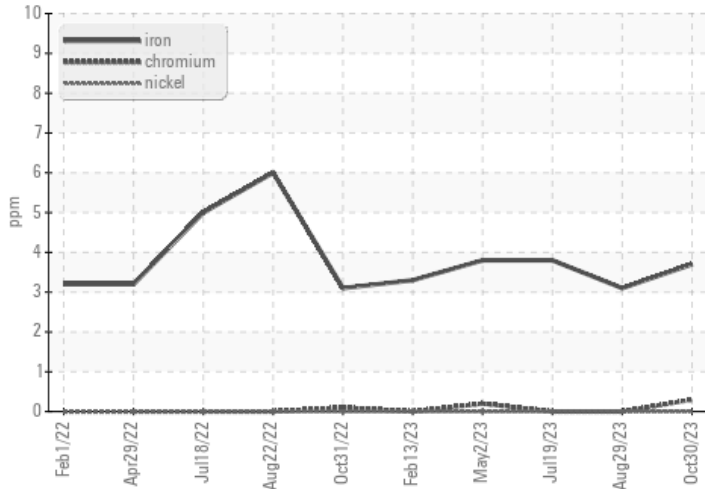


# CONSTRUCTION EQUIPMENT

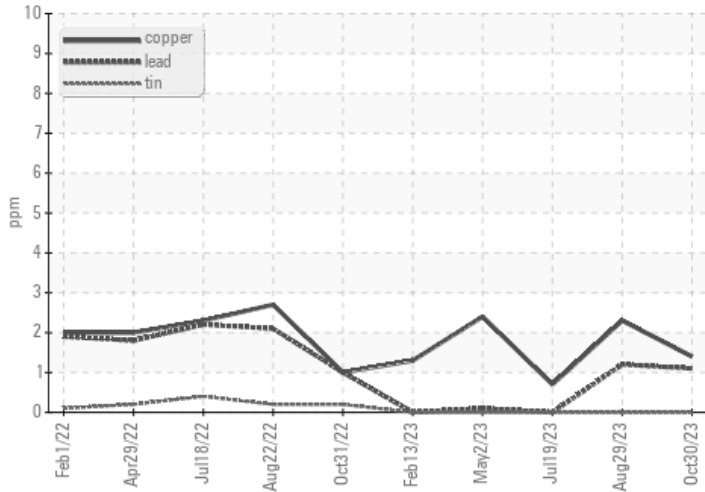


## GRAPHS

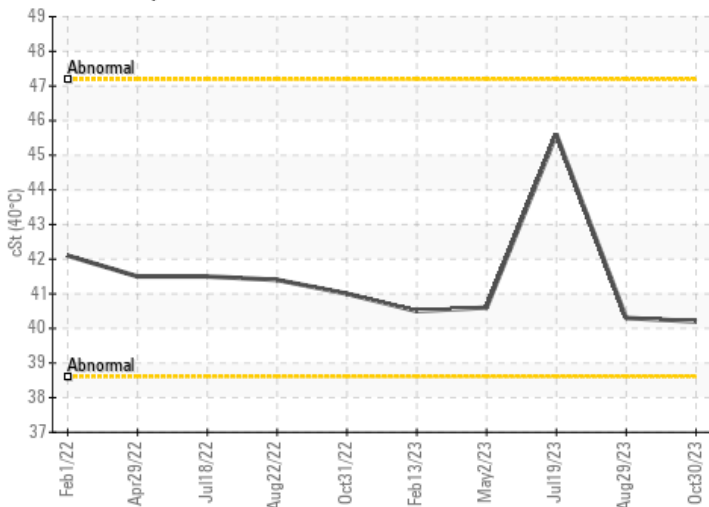
### Ferrous Alloys



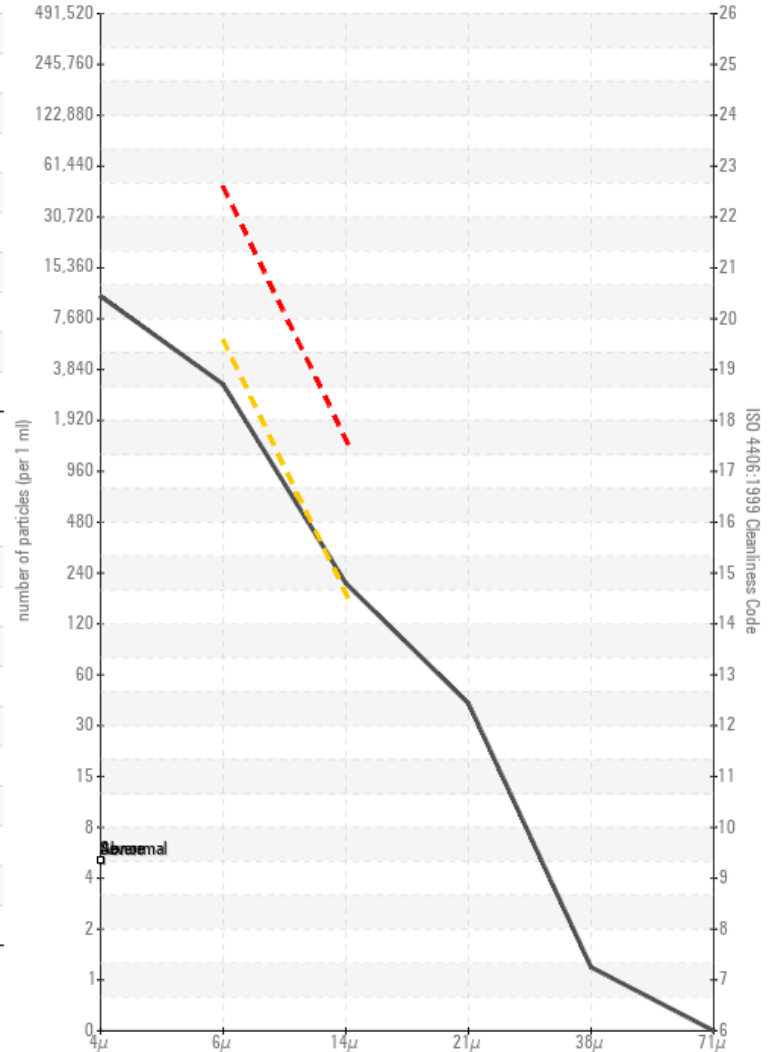
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

