



# CONSTRUCTION EQUIPMENT

## SPM579499 WASTE MGMT VOLVO L90H 624438 - HYDRAULIC SYSTEM



**Sample No:** VCP417660  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM579499 WASTE MGMT



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP417660</b>   | VCP421044   | VCP405133   | VCP394253   |
| Sample Date   | <b>10 Jul 2023</b> | 16 May 2023 | 03 Apr 2023 | 10 Feb 2023 |
| Machine Hours | <b>11301</b>       | 0           | 10330       | 9322        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Changd</b>  | Not Changd  | Not Changd  | Not Changd  |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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



### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C      | cSt      | <b>42.0</b> | 42.2 | 42.2 | 42.6 |
| Acid Number (AN) | mg KOH/g | <b>0.45</b> | 0.38 | 0.38 | 0.38 |



### CONTAMINATION

|                   |                 |          |          |          |   |
|-------------------|-----------------|----------|----------|----------|---|
| Particles >4µm    | <b>1185</b>     | 1008     | 922      | 1555     |   |
| Particles >6µm    | <b>301</b>      | 235      | 190      | 481      |   |
| Particles >14µm   | <b>26</b>       | 27       | 19       | 47       |   |
| ISO 4406:1999 (c) | <b>17/15/12</b> | 17/15/12 | 17/15/11 | 18/16/13 |   |
| Silicon           | ppm             | <b>6</b> | 5        | 5        | 5 |
| Sodium            | ppm             | <b>7</b> | 10       | 10       | 9 |
| Potassium         | ppm             | <b>1</b> | <1       | 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>8</b>     | 4  | 6  | 6  |
| Copper     | ppm | <b>6</b>     | 4  | 5  | 4  |
| Lead       | ppm | <b>1</b>     | <1 | 0  | <1 |
| Tin        | ppm | <b>0</b>     | 0  | 0  | 0  |
| Aluminum   | ppm | <b>1</b>     | <1 | <1 | 0  |
| Chromium   | ppm | <b>2</b>     | <1 | 1  | 1  |
| Molybdenum | ppm | <b>4</b>     | 4  | 4  | 5  |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | <1 |
| Titanium   | ppm | <b>0</b>     | <1 | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | 0  |
| Manganese  | ppm | <b>0</b>     | <1 | <1 | 0  |
| Vanadium   | ppm | <b>0</b>     | 0  | 0  | 0  |



### ADDITIVES

|            |     |            |     |     |     |
|------------|-----|------------|-----|-----|-----|
| Calcium    | ppm | <b>86</b>  | 77  | 83  | 80  |
| Magnesium  | ppm | <b>15</b>  | 5   | 16  | 13  |
| Zinc       | ppm | <b>443</b> | 461 | 442 | 395 |
| Phosphorus | ppm | <b>327</b> | 355 | 349 | 323 |
| Barium     | ppm | <b>0</b>   | 0   | 0   | 0   |
| Boron      | ppm | <b>0</b>   | 0   | 0   | 0   |

**Depot:** VOLVO0093  
**Unique No:** 10563598  
**Signed:** Wes Davis  
**Report Date:** 20 Jul 2023

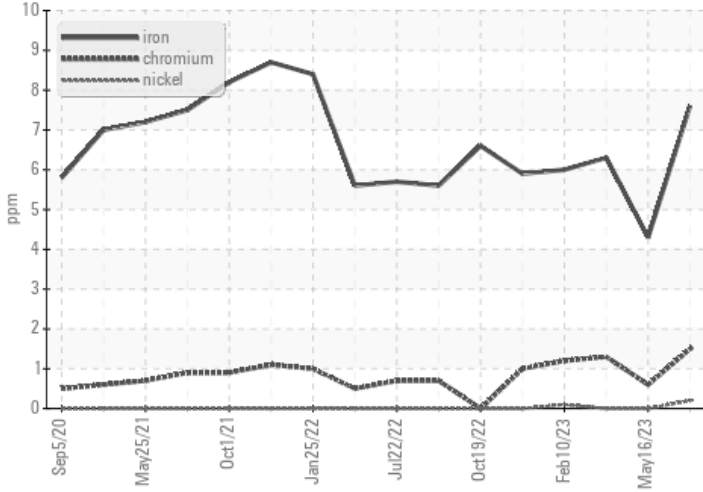


# CONSTRUCTION EQUIPMENT

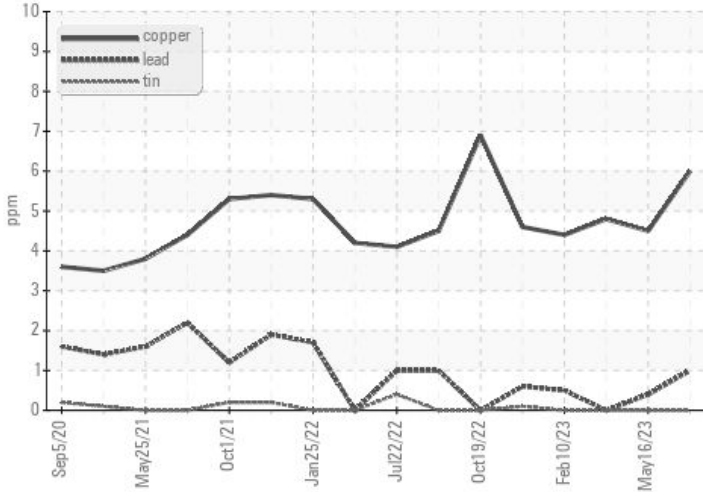


## VOLVO GRAPHS

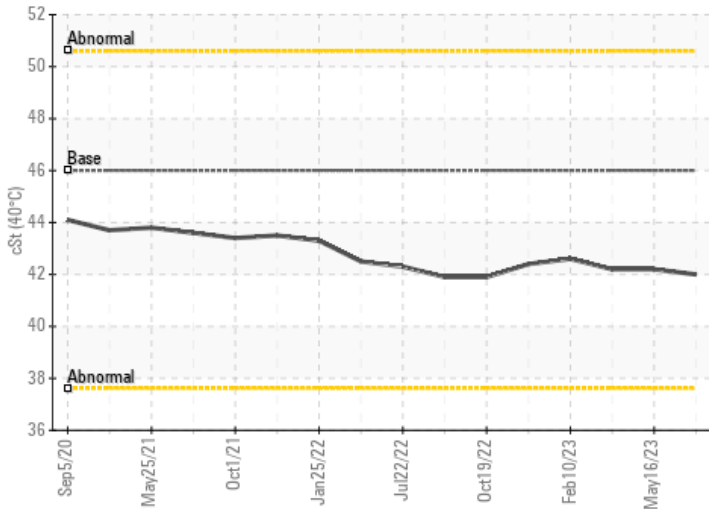
### Ferrous Alloys



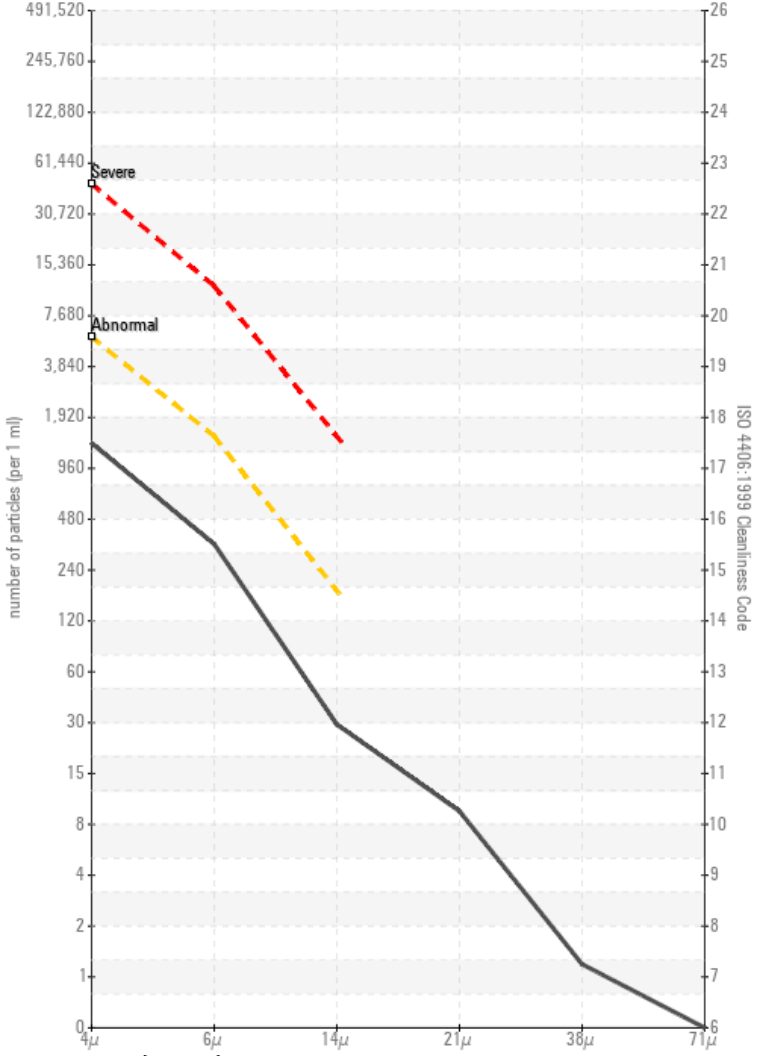
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

