



CONSTRUCTION EQUIPMENT

SPM620293 SENNEBOGEN 835ME 835.0.2078 - HYDRAULIC SYSTEM



Sample No: VCP415050
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM620293



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP415050 | VCP418505 | VCP387328 | VCP366844 |
| Sample Date | 12 Oct 2023 | 19 May 2023 | 02 Mar 2023 | 03 Aug 2022 |
| Machine Hours | 19841 | 19056 | 18536 | 17543 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Changed | Not Chngd | Not Chngd |
| Sample Status | ABNORMAL | ABNORMAL | ATTENTION | ABNORMAL |

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
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 T:
 F:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 43.7 | 43.7 | 43.6 | 43.7 |
| Acid Number (AN) | mg KOH/g | 0.42 | 0.44 | 0.41 | 0.43 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|-----|----------|----------|
| Particles >4µm | | 48391 | --- | 5031 | 23717 |
| Particles >6µm | | 11476 | --- | 1042 | 4317 |
| Particles >14µm | | 434 | --- | 35 | 322 |
| ISO 4406:1999 (c) | | 23/21/16 | --- | 20/17/12 | 22/19/16 |
| Silicon | ppm | <1 | <1 | <1 | 0 |
| Sodium | ppm | 0 | 0 | 2 | 1 |
| Potassium | ppm | <1 | 1 | 0 | 0 |

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high 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 | <1 | 4 | 3 | 2 |
| Copper | ppm | <1 | <1 | <1 | <1 |
| Lead | ppm | 0 | <1 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 0 | 0 | <1 | 1 |
| Chromium | ppm | 3 | 2 | 2 | <1 |
| Molybdenum | ppm | 0 | <1 | <1 | <1 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | 0 | 0 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 53 | 44 | 42 | 37 |
| Magnesium | ppm | 59 | 37 | 39 | 53 |
| Zinc | ppm | 615 | 547 | 511 | 568 |
| Phosphorus | ppm | 449 | 411 | 417 | 443 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | <1 |

Depot: SIMCHIL
Unique No: 10712959
Signed: Don Baldrige
Report Date: 28 Oct 2023

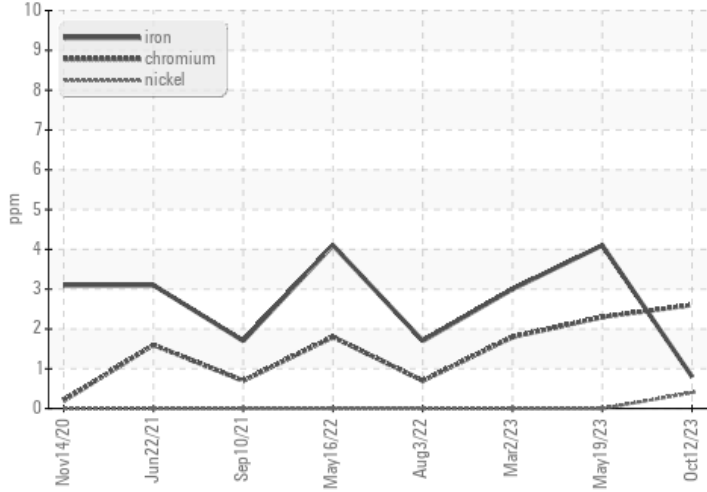


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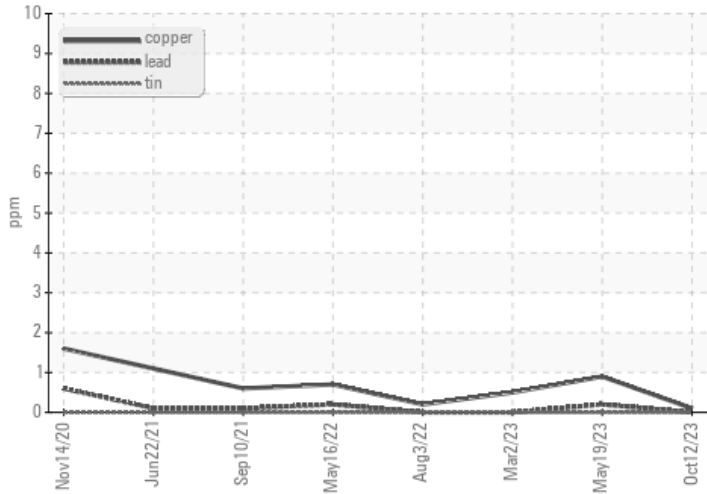


VOLVO GRAPHS

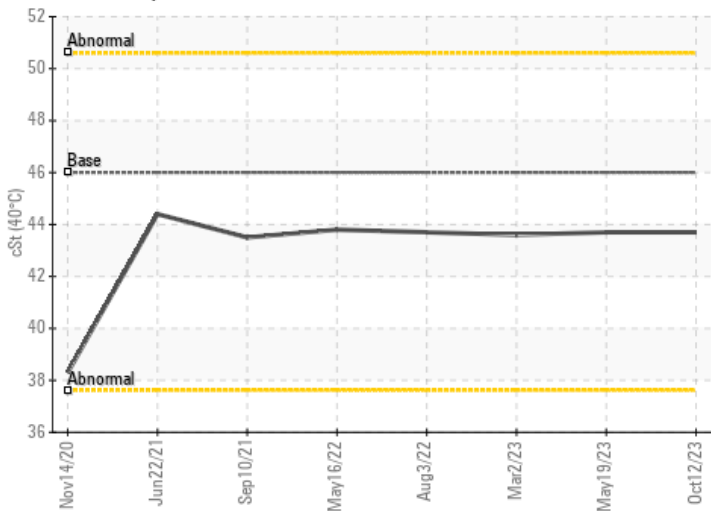
Ferrous Alloys



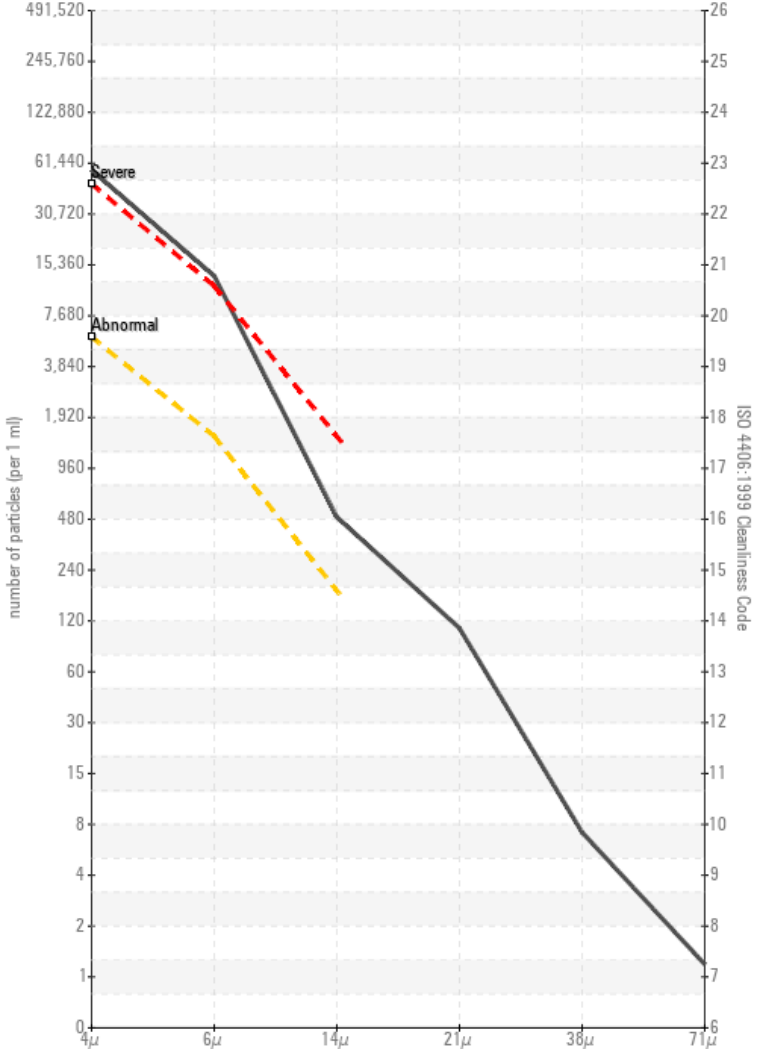
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

