# CONSTRUCTION EQUIPMENT

## SPM716528 SENNEBOGEN 835ME 835.0.2012 (S/N 835.2012) - HYDRAULIC SYSTEM

**Sample No:** VCP452572
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46
**Job No:** SPM716528


**SIMS METAL MANAGEMENT**
2500 S. PAULINA
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US 60608
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### SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **VCP452572** | VCP404372 | VCP318398 | --- |
| Sample Date | | **23 May 2024** | 20 Jan 2023 | 06 Aug 2021 | --- |
| Machine Hours | | **19052** | 17488 | 15745 | --- |
| Oil Hours | | **0** | 0 | 0 | --- |
| Oil Changed | | **Not Changd** | Not Changd | Changed | --- |
| Sample Status | | **ATTENTION** | NORMAL | ABNORMAL | --- |

### OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **44.8** | 44.4 | 44.1 | --- |
| Acid Number (AN) | mg KOH/g | **0.33** | 0.35 | 0.378 | --- |

### CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Water | % | **NEG** | NEG | NEG | --- |
| Particles >4µm | | **9903** | 1468 | 10209 | --- |
| Particles >6µm | | **2382** | 400 | 935 | --- |
| Particles >14µm | | **55** | 30 | 21 | --- |
| ISO 4406:1999 (c) | | **20/18/13** | 18/16/12 | 21/17/12 | --- |
| Silicon | ppm | **0** | <1 | 0 | --- |
| Sodium | ppm | **2** | 0 | 2 | --- |
| Potassium | ppm | **0** | <1 | 0 | --- |

### WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **0** | 4 | 7 | --- |
| Copper | ppm | **0** | <1 | 2 | --- |
| Lead | ppm | **0** | 0 | <1 | --- |
| Tin | ppm | **0** | 0 | <1 | --- |
| Aluminum | ppm | **0** | 0 | 0 | --- |
| Chromium | ppm | **3** | 4 | 8 | --- |
| Molybdenum | ppm | **0** | <1 | 2 | --- |
| Nickel | ppm | **0** | 0 | 0 | --- |
| Titanium | ppm | **0** | 0 | 0 | --- |
| Silver | ppm | **0** | 0 | 0 | --- |
| Manganese | ppm | **0** | 0 | <1 | --- |
| Vanadium | ppm | **0** | 0 | 0 | --- |

### ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **46** | 53 | 77 | --- |
| Magnesium | ppm | **0** | 2 | 8 | --- |
| Zinc | ppm | **427** | 485 | 418 | --- |
| Phosphorus | ppm | **344** | 365 | 344 | --- |
| Barium | ppm | **0** | 0 | 0 | --- |
| Boron | ppm | **0** | 0 | 4 | --- |

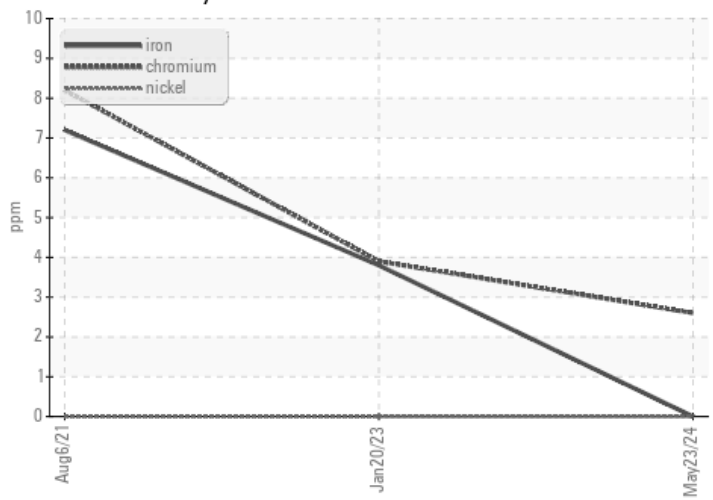
## Diagnosis

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 light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

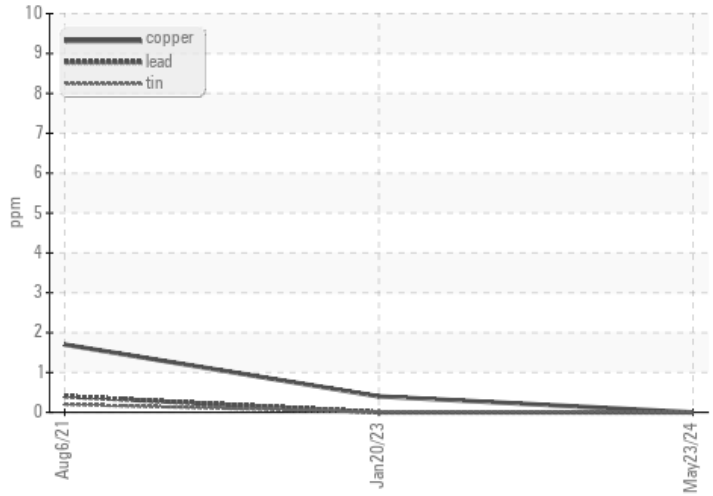
**Depot:** SIMCHIIL
**Unique No:** 11059695
**Signed:** Wes Davis
**Report Date:** 04 Jun 2024

## GRAPHS

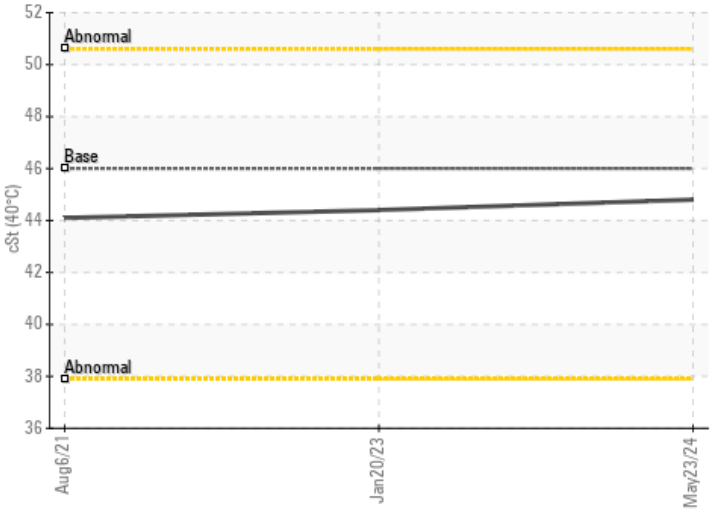
### Ferrous Alloys



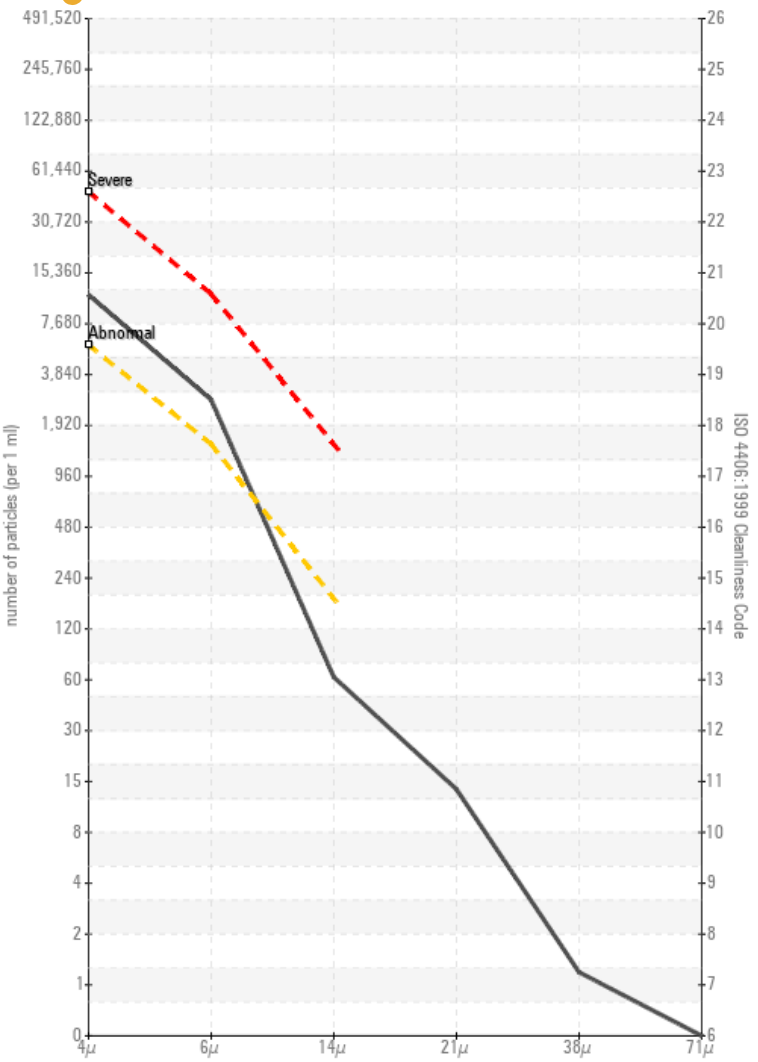

### Non-ferrous Metals




### Viscosity @ 40°C




### Particle Count




### Acid Number