

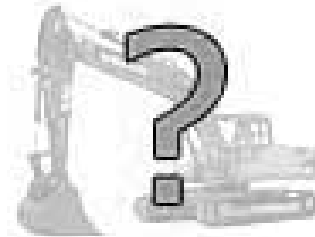


CONSTRUCTION EQUIPMENT

SPM595474 SENNEBOGEN 825ME 825.0.3415 - HYDRAULIC SYSTEM



Sample No: VCP415075
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM595474



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP415075 | VCP418523 | VCP410843 | VCP387450 |
| Sample Date | 25 Aug 2023 | 08 May 2023 | 09 Mar 2023 | 06 Jan 2023 |
| Machine Hours | 7037 | 6085 | 5539 | 5025 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | ABNORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 39.2 | 40.1 | 38.8 | 39.9 |
| Acid Number (AN) | mg KOH/g | 0.56 | 0.55 | 0.46 | 0.57 |

CONTAMINATION

| | | | | | |
|-------------------|-----------------|--------------|----------|----------|----|
| Particles >4µm | 2662 | 1951 | 18000 | 71825 | |
| Particles >6µm | 606 | 360 | 5362 | 18742 | |
| Particles >14µm | 36 | 26 | 203 | 871 | |
| ISO 4406:1999 (c) | 19/16/12 | 18/16/12 | 21/20/15 | 23/21/17 | |
| Silicon | ppm | <1 | 0 | 1 | <1 |
| Sodium | ppm | 7 | 2 | 3 | 3 |
| Potassium | ppm | 0 | 0 | 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 | 8 | 7 | 5 | 5 |
| Copper | ppm | 3 | 2 | 2 | 2 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | 0 | <1 | 0 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | 0 | <1 | 0 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 319 | 226 | 220 | 223 |
| Magnesium | ppm | 0 | 1 | 3 | 3 |
| Zinc | ppm | 385 | 331 | 333 | 328 |
| Phosphorus | ppm | 333 | 279 | 279 | 285 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |

Depot: ALLCHIL
Unique No: 10634135
Signed: Wes Davis
Report Date: 07 Sep 2023

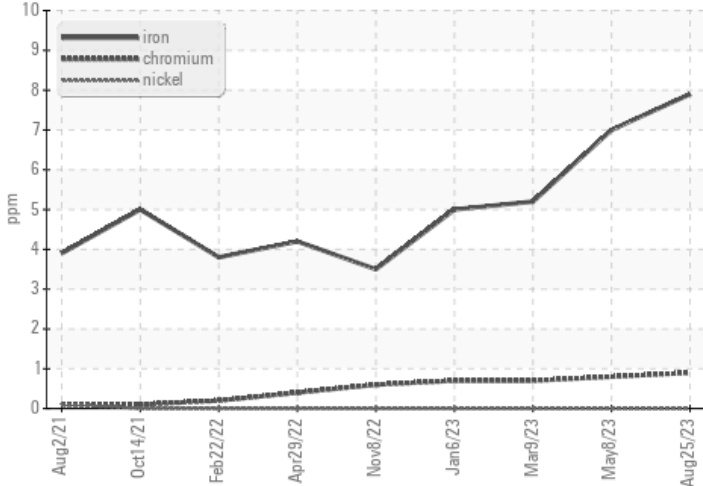


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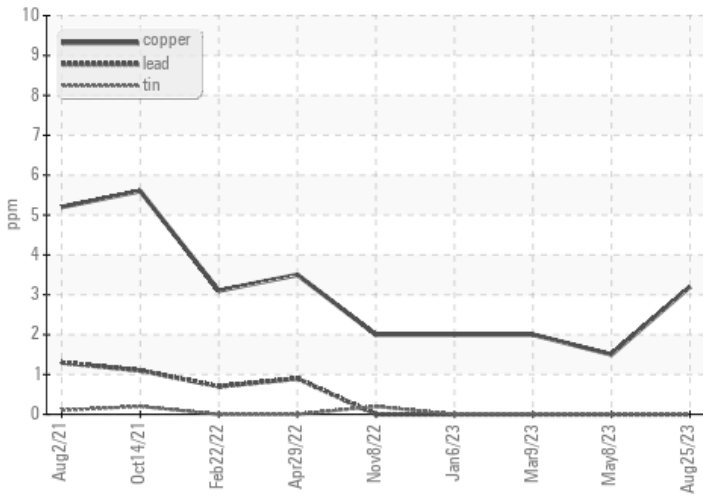


GRAPHS

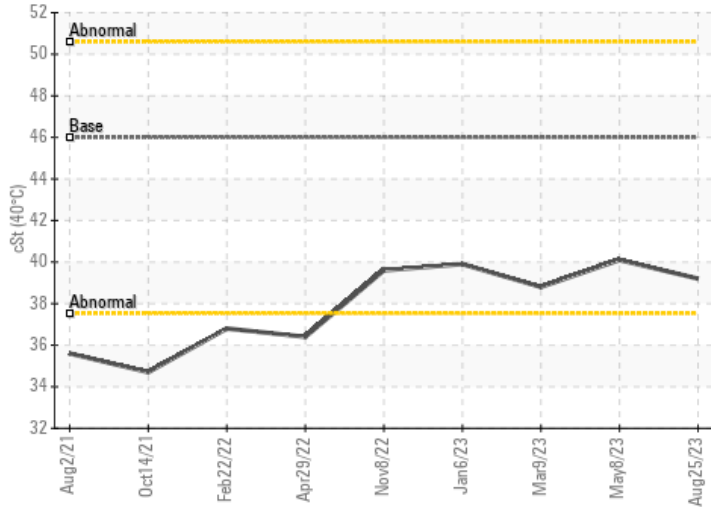
Ferrous Alloys



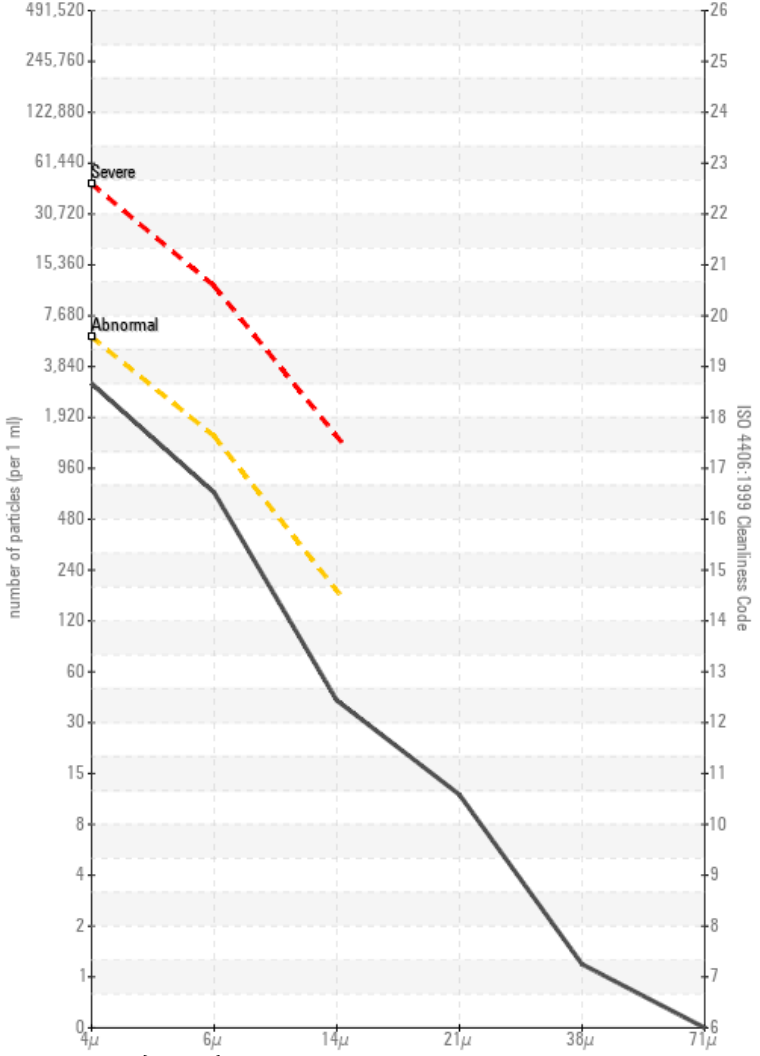
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

