



CONSTRUCTION EQUIPMENT

RED PATH SUGAR 8-430199 SENNEBOGEN 880 8807123 (S/N 880 7.123) - HYDRAULIC SYSTEM



Sample No: VCP430199
Oil Type: SHELL NATUREL HF-E 46
Job No: 8-430199



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP430199 | VCP394611 | VCP352269 | VCP173263 |
| Sample Date | 04 Jul 2024 | 10 Apr 2024 | 22 Sep 2022 | 10 May 2021 |
| Machine Hours | 17266 | 16976 | 14939 | 12471 |
| Oil Hours | 165 | 1643 | 430 | 1200 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | NORMAL | NORMAL | NORMAL | ATTENTION |

STRONGCO EQUIPMENT INC.

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 46.8 | 46.7 | 46.0 | 43.2 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-------------------|-----|-----------------|----------|----------|----------|
| Particles >4µm | | 2356 | 3849 | 2843 | 3323 |
| Particles >6µm | | 653 | 1217 | 921 | 693 |
| Particles >14µm | | 34 | 77 | 74 | 57 |
| ISO 4406:1999 (c) | | 18/17/12 | 19/17/13 | 19/17/13 | 19/17/13 |
| Silicon | ppm | 0 | 0 | <1 | <1 |
| Sodium | ppm | 2 | 3 | 3 | 5 |
| Potassium | ppm | 1 | 3 | <1 | <1 |

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 condition of the oil is acceptable for the time in service.



WEAR METALS

| PQ | | --- | --- | --- | 0 |
|------------|-----|--------------|-----|-----|----|
| Iron | ppm | 9 | 8 | 17 | 47 |
| Copper | ppm | 1 | 1 | 1 | 1 |
| Lead | ppm | 1 | 1 | 2 | <1 |
| Tin | ppm | 0 | 0 | <1 | 1 |
| Aluminum | ppm | 1 | 1 | 1 | 2 |
| Chromium | ppm | <1 | 0 | <1 | <1 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | <1 | 0 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | 0 | 0 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 3 | <1 | 5 | 2 |
| Magnesium | ppm | <1 | <1 | <1 | <1 |
| Zinc | ppm | 11 | 11 | 15 | 38 |
| Phosphorus | ppm | 195 | 198 | 274 | 542 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | <1 | 1 | 1 | <1 |

Depot: SHEMIS
Unique No: 5811838
Signed: Kevin Marson
Report Date: 09 Jul 2024

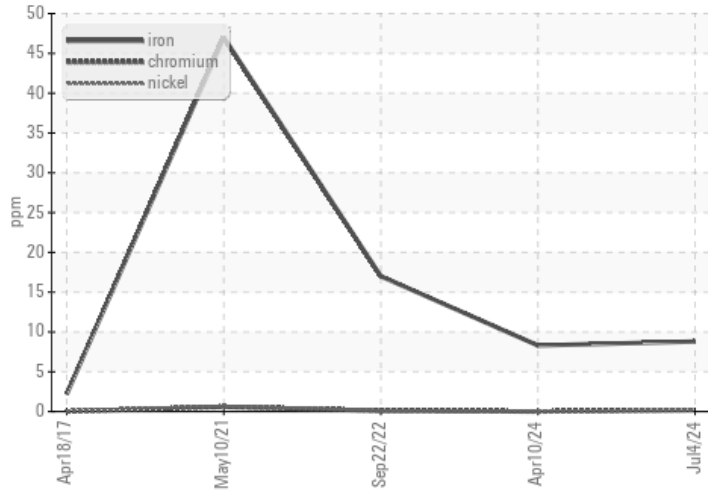


CONSTRUCTION EQUIPMENT

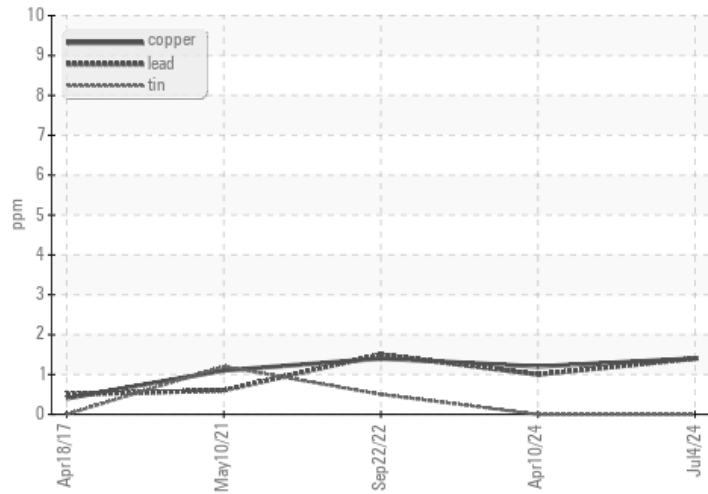


VOLVO GRAPHS

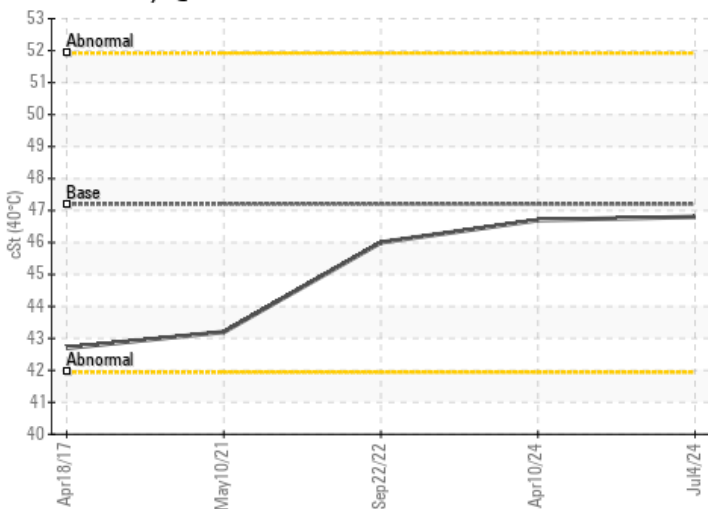
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

