



CONSTRUCTION EQUIPMENT

SWO-070857 VOLVO A45G 352704 - HYDRAULIC SYSTEM



Sample No: VCP445579
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-070857



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP445579 | VCP431886 | VCP389315 | VCP383497 |
| Sample Date | 03 Apr 2024 | 06 Nov 2023 | 17 Jul 2023 | 27 Apr 2023 |
| Machine Hours | 5412 | 4902 | 4405 | 3920 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Changed |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |

SAIIA CONSTRUCTION LLC

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 44.6 | 44.2 | 44.5 | 44.5 |
| Acid Number (AN) | mg KOH/g | 0.30 | 0.36 | 0.37 | 0.30 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 1456 | 7495 | 11881 | 604 |
| Particles >6µm | | 241 | 2116 | 4880 | 62 |
| Particles >14µm | | 23 | 78 | 548 | 5 |
| ISO 4406:1999 (c) | | 18/15/12 | 20/18/13 | 21/19/16 | 16/13/10 |
| Silicon | ppm | 6 | 5 | 5 | 6 |
| Sodium | ppm | 1 | 0 | 0 | <1 |
| Potassium | ppm | 0 | 1 | 1 | <1 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 3 | 7 | 6 | 7 |
| Copper | ppm | 5 | 2 | 2 | 2 |
| Lead | ppm | <1 | 2 | 2 | 0 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | 0 | <1 | <1 | 1 |
| Chromium | ppm | 0 | <1 | 0 | 0 |
| Molybdenum | ppm | 0 | <1 | <1 | 0 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | <1 | 0 | 0 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 62 | 86 | 95 | 65 |
| Magnesium | ppm | 4 | 25 | 5 | 5 |
| Zinc | ppm | 398 | 436 | 447 | 378 |
| Phosphorus | ppm | 310 | 344 | 333 | 301 |
| Barium | ppm | 0 | 7 | 1 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |

Depot: SAIBIR
Unique No: 10967793
Signed: Jonathan Hester
Report Date: 11 Apr 2024

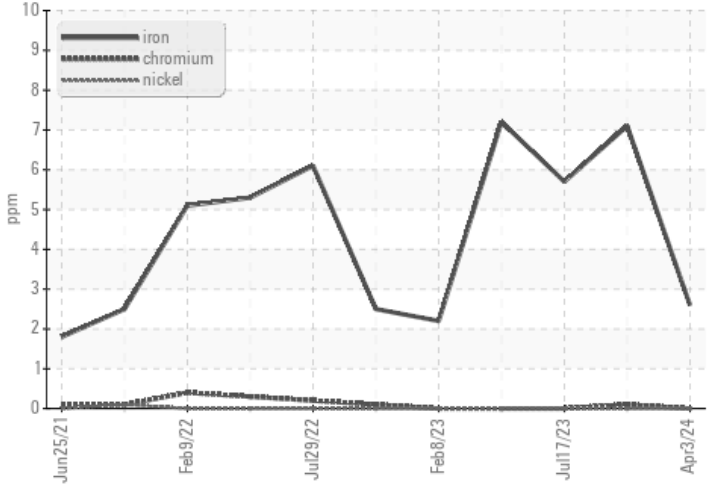


CONSTRUCTION EQUIPMENT

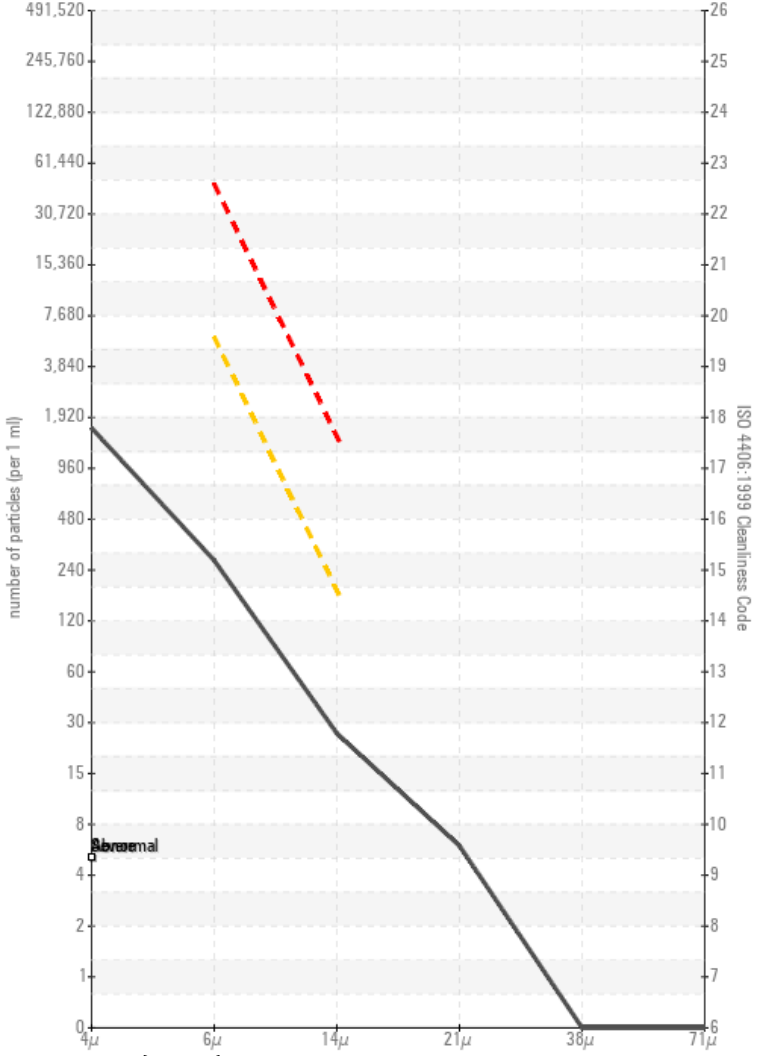


GRAPHS

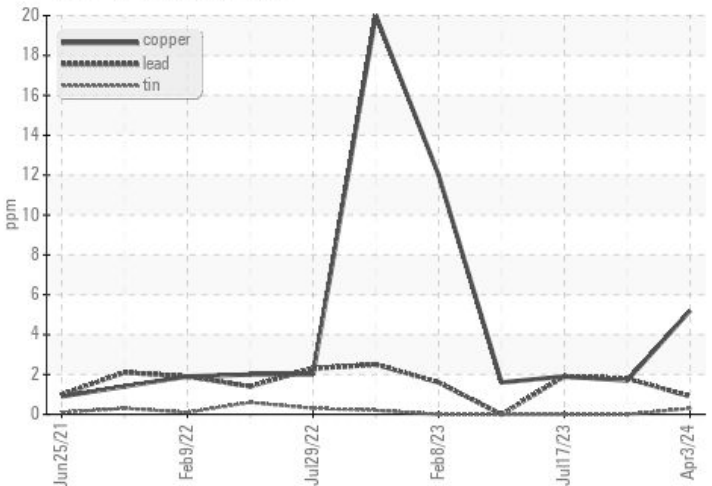
Ferrous Alloys



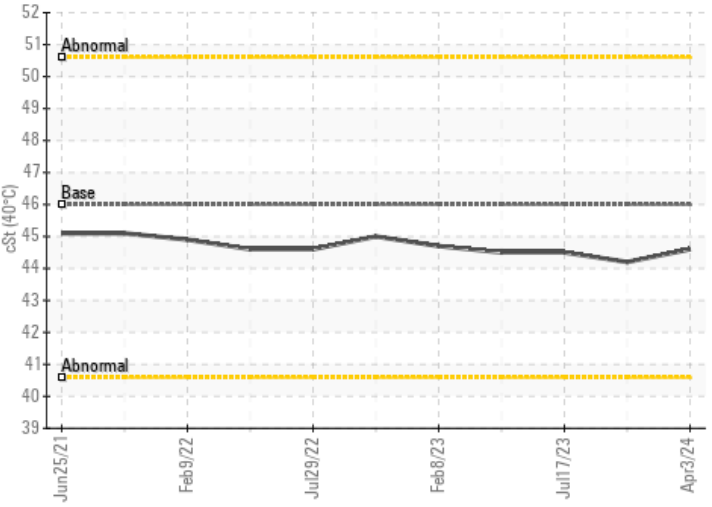
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

