



CONSTRUCTION EQUIPMENT

SWO-065063 VOLVO A45G 352734 - HYDRAULIC SYSTEM



Sample No: VCP426211
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-065063



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP426211 | VCP382599 | VCP380794 | VCP390114 |
| Sample Date | 21 Aug 2023 | 27 Apr 2023 | 17 Jan 2023 | 12 Oct 2022 |
| Machine Hours | 3997 | 3463 | 2987 | 2471 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

SAIIA CONSTRUCTION LLC

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 44.6 | 45.1 | 45.0 | 44.8 |
| Acid Number (AN) | mg KOH/g | 0.40 | 0.38 | 0.40 | 0.34 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Particles >4µm | | 2630 | 3217 | 1326 | 26863 |
| Particles >6µm | | 501 | 1025 | 421 | 514 |
| Particles >14µm | | 19 | 105 | 40 | 33 |
| ISO 4406:1999 (c) | | 19/16/11 | 19/17/14 | 18/16/12 | 22/16/12 |
| Silicon | ppm | 7 | 5 | 7 | 9 |
| Sodium | ppm | 2 | <1 | 0 | 2 |
| Potassium | ppm | 2 | <1 | 2 | 0 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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 | 9 | 2 | 2 | <1 |
| Copper | ppm | 3 | 6 | 17 | 11 |
| Lead | ppm | 4 | 0 | 2 | <1 |
| Tin | ppm | <1 | 0 | 0 | <1 |
| Aluminum | ppm | 2 | <1 | 0 | <1 |
| Chromium | ppm | <1 | 0 | 0 | <1 |
| Molybdenum | ppm | <1 | 0 | 0 | <1 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | <1 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | 0 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 71 | 51 | 58 | 36 |
| Magnesium | ppm | 8 | 8 | 9 | 14 |
| Zinc | ppm | 459 | 363 | 422 | 432 |
| Phosphorus | ppm | 350 | 293 | 313 | 323 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |

Depot: SAIBIR
Unique No: 10622454
Signed: Don Baldrige
Report Date: 30 Aug 2023

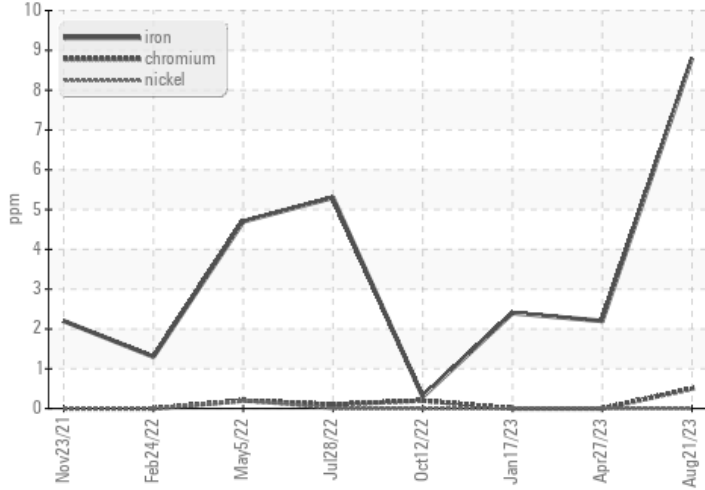


CONSTRUCTION EQUIPMENT

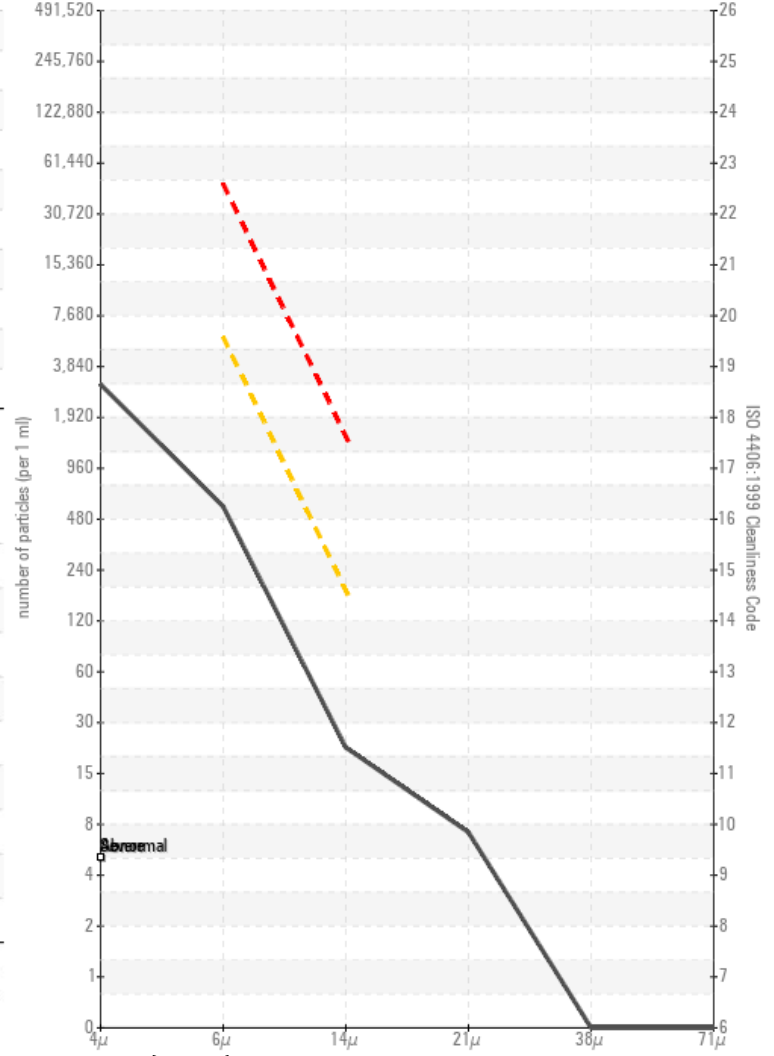


VOLVO GRAPHS

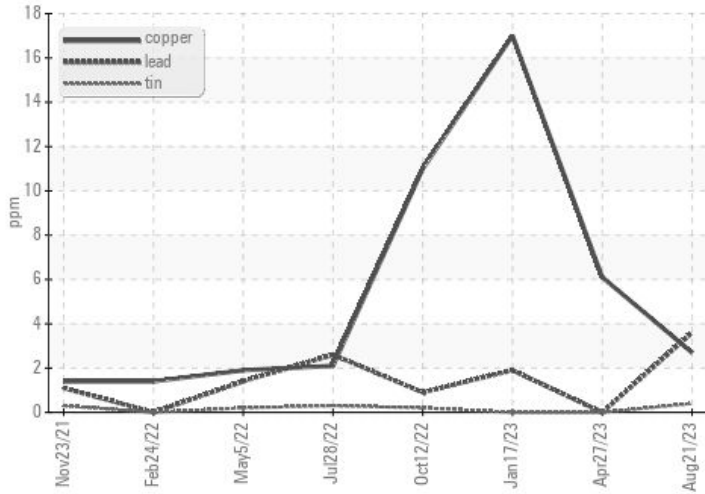
Ferrous Alloys



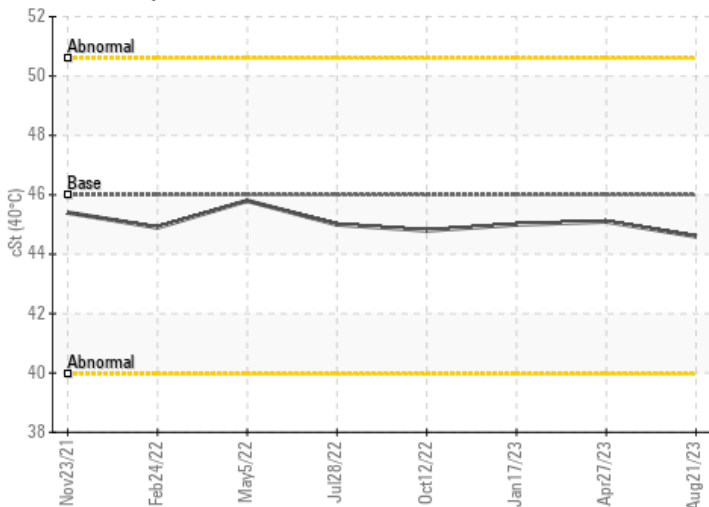
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

