



CONSTRUCTION EQUIPMENT

SWO-064552 VOLVO A45G 352 134 - HYDRAULIC SYSTEM



Sample No: VCP416411
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064552



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP416411 | VCP414242 | VCP401936 | VCP406393 |
| Sample Date | 31 Jul 2023 | 31 May 2023 | 04 Apr 2023 | 06 Feb 2023 |
| Machine Hours | 7719 | 7234 | 6763 | 6236 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 46.0 | 45.1 | 44.2 | 44.0 |
| Acid Number (AN) | mg KOH/g | 0.40 | 0.32 | 0.40 | 0.33 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|---------|
| Particles >4µm | | 3874 | 3860 | 2015 | 459 |
| Particles >6µm | | 908 | 1084 | 390 | 37 |
| Particles >14µm | | 27 | 21 | 12 | 0 |
| ISO 4406:1999 (c) | | 19/17/12 | 19/17/12 | 18/16/11 | 16/12/7 |
| Silicon | ppm | 4 | 4 | 5 | 5 |
| Sodium | ppm | 2 | <1 | 0 | 0 |
| Potassium | ppm | <1 | <1 | 1 | 1 |

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 | 7 | 7 | 6 | 9 |
| Copper | ppm | 4 | 3 | 4 | 6 |
| Lead | ppm | 0 | 0 | 1 | 2 |
| Tin | ppm | 0 | <1 | 0 | <1 |
| Aluminum | ppm | 1 | 2 | 0 | 1 |
| Chromium | ppm | 0 | <1 | <1 | <1 |
| Molybdenum | ppm | <1 | 1 | <1 | <1 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | 0 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 121 | 129 | 123 | 110 |
| Magnesium | ppm | 13 | 15 | 11 | 8 |
| Zinc | ppm | 451 | 481 | 455 | 460 |
| Phosphorus | ppm | 328 | 357 | 333 | 334 |
| Barium | ppm | 0 | 2 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |

Depot: SAIBIR
Unique No: 10587926
Signed: Don Baldrige
Report Date: 07 Aug 2023

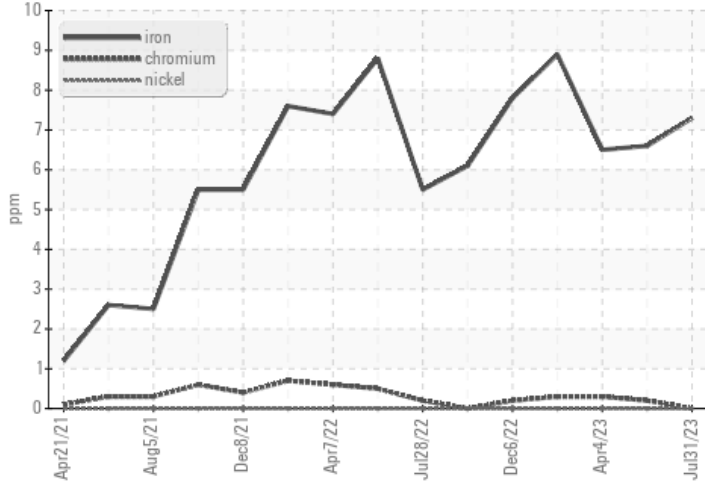


CONSTRUCTION EQUIPMENT

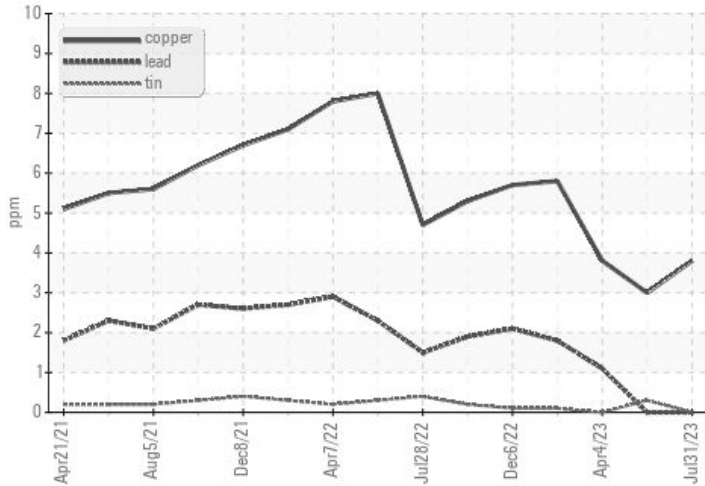


GRAPHS

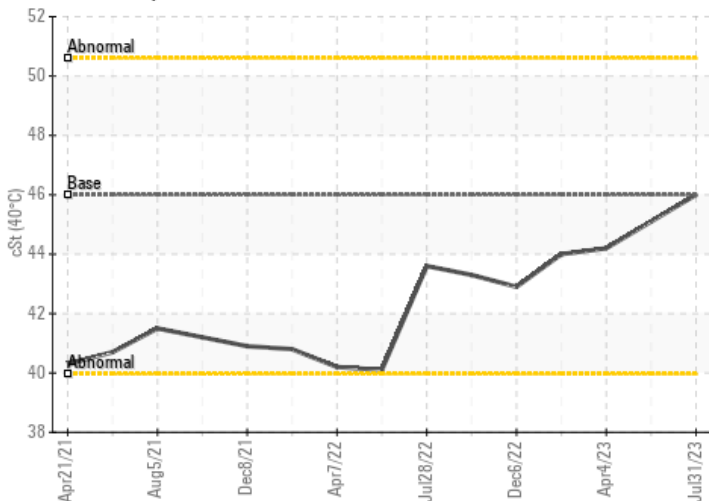
Ferrous Alloys



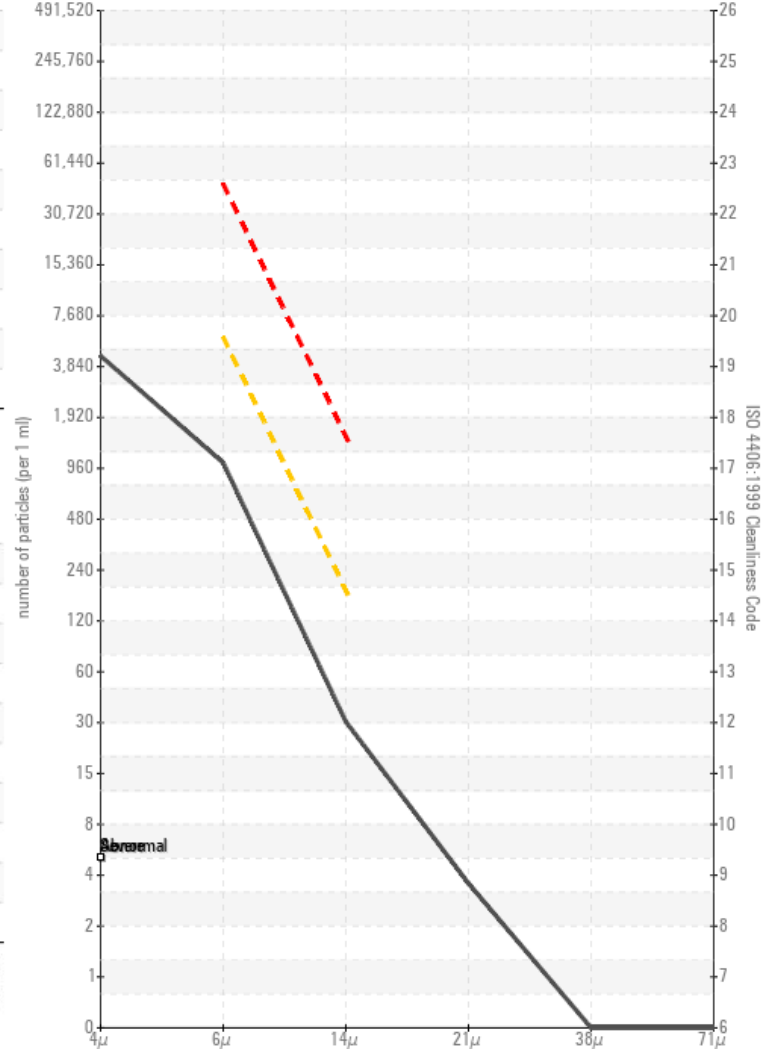
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

