



CONSTRUCTION EQUIPMENT

VOLVO A40F 1 1843 - HYDRAULIC SYSTEM



Sample No: VCP431970

Oil Type: AW HYDRAULIC OIL ISO 46

Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP431970 | VCP414174 | VCP421747 | VCP397072 |
| Sample Date | 01 Nov 2023 | 02 Aug 2023 | 21 Apr 2023 | 12 Apr 2023 |
| Machine Hours | 6592 | 6103 | 4800 | 5555 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|---------|------|
| Visc @ 40°C | cSt | 45.0 | 44.7 | ▲ 61.08 | 43.3 |
| Acid Number (AN) | mg KOH/g | 0.38 | 0.48 | 0.60 | 0.32 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|-----|----------|
| Particles >4µm | | 4115 | 17366 | --- | 1711 |
| Particles >6µm | | 557 | 1207 | --- | 441 |
| Particles >14µm | | 21 | 10 | --- | 26 |
| ISO 4406:1999 (c) | | 19/16/12 | 21/17/10 | --- | 18/16/12 |
| Silicon | ppm | 2 | 3 | 3 | 4 |
| Sodium | ppm | 0 | 0 | 3 | 2 |
| Potassium | ppm | <1 | 2 | 0 | 0 |

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 | 5 | 7 | 8 | 8 |
| Copper | ppm | 3 | 2 | 17 | 3 |
| Lead | ppm | 2 | 3 | 0 | 0 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | <1 | 1 | 4 | <1 |
| Chromium | ppm | 2 | 4 | 2 | 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 | 0 | 0 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 79 | 95 | 86 | 70 |
| Magnesium | ppm | 10 | 18 | 2 | 8 |
| Zinc | ppm | 442 | 525 | 570 | 448 |
| Phosphorus | ppm | 347 | 370 | 393 | 329 |
| Barium | ppm | 7 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |

Depot: SAIBIR

Unique No: 10743358

Signed: Don Baldrige

Report Date: 19 Nov 2023

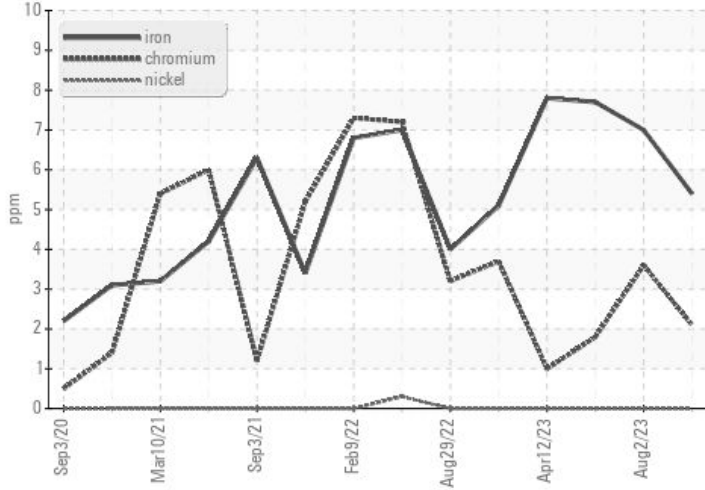


CONSTRUCTION EQUIPMENT

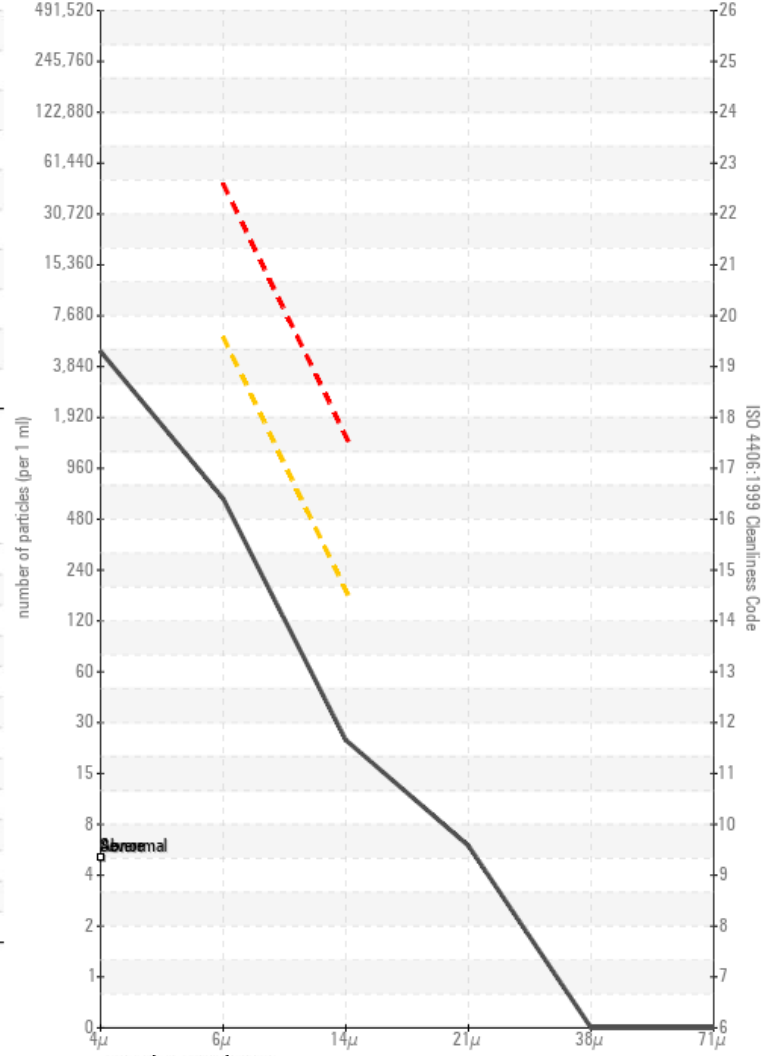


VOLVO GRAPHS

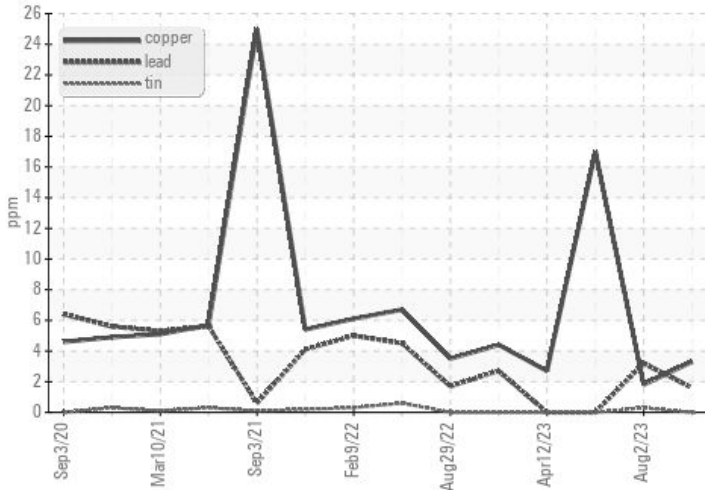
Ferrous Alloys



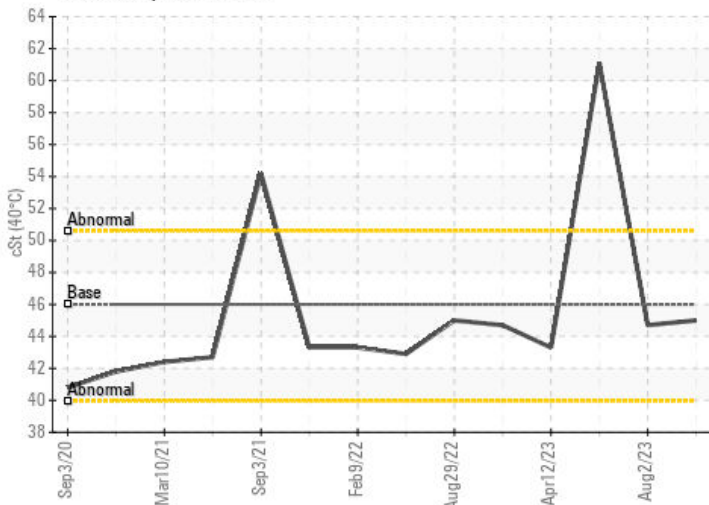
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

