



CONSTRUCTION EQUIPMENT

580566 VOLVO A30G 752343 - HYDRAULIC SYSTEM



Sample No: VCP411829
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 580566



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP411829 | VCP379665 | VCP376712 | VCP330272 |
| Sample Date | 21 Jul 2023 | 26 Jan 2023 | 05 Aug 2022 | 09 Mar 2022 |
| Machine Hours | 3990 | 3025 | 2078 | 1178 |
| Oil Hours | 3990 | 1500 | 1500 | 1178 |
| Oil Changed | Changed | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | ABNORMAL | NORMAL | ABNORMAL |

RIPA AND ASSOCIATES
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 T:
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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 44.0 | 49.5 | 43.9 | 44.9 |
| Acid Number (AN) | mg KOH/g | 0.43 | 0.70 | 0.41 | 0.45 |

CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|-----|
| Water | % | --- | ▲ 0.201 | --- | --- |
| Particles >4µm | | 619 | ▲ 109438 | 2996 | --- |
| Particles >6µm | | 150 | ▲ 39504 | 841 | --- |
| Particles >14µm | | 14 | ▲ 3968 | 82 | --- |
| ISO 4406:1999 (c) | | 16/14/11 | 24/22/19 | 19/17/14 | --- |
| Silicon | ppm | 4 | 8 | 3 | 3 |
| Sodium | ppm | 3 | 3 | <1 | 0 |
| Potassium | ppm | 0 | 0 | 0 | 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 11 | 6 | 7 | 5 |
| Copper | ppm | 5 | 31 | 5 | 4 |
| Lead | ppm | 2 | 0 | 3 | 3 |
| Tin | ppm | 0 | 0 | 1 | <1 |
| Aluminum | ppm | 2 | <1 | 2 | <1 |
| Chromium | ppm | <1 | 0 | <1 | <1 |
| Molybdenum | ppm | <1 | 2 | <1 | 0 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | <1 |
| Manganese | ppm | <1 | <1 | 0 | 0 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|------------|--------|-----|-----|
| Calcium | ppm | 76 | ▲ 2168 | 58 | 64 |
| Magnesium | ppm | 2 | 26 | 0 | 2 |
| Zinc | ppm | 430 | ▲ 1094 | 433 | 452 |
| Phosphorus | ppm | 347 | ▲ 843 | 340 | 332 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | ▲ 68 | 2 | 0 |

Depot: RIPTAM
Unique No: 10602064
Signed: Wes Davis
Report Date: 14 Aug 2023

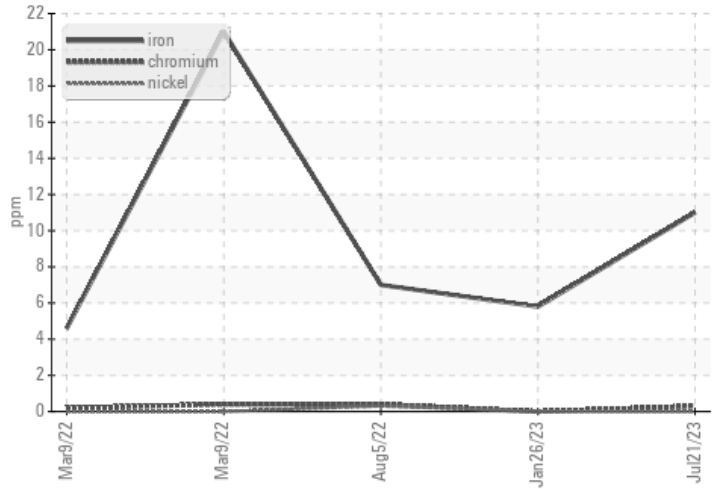


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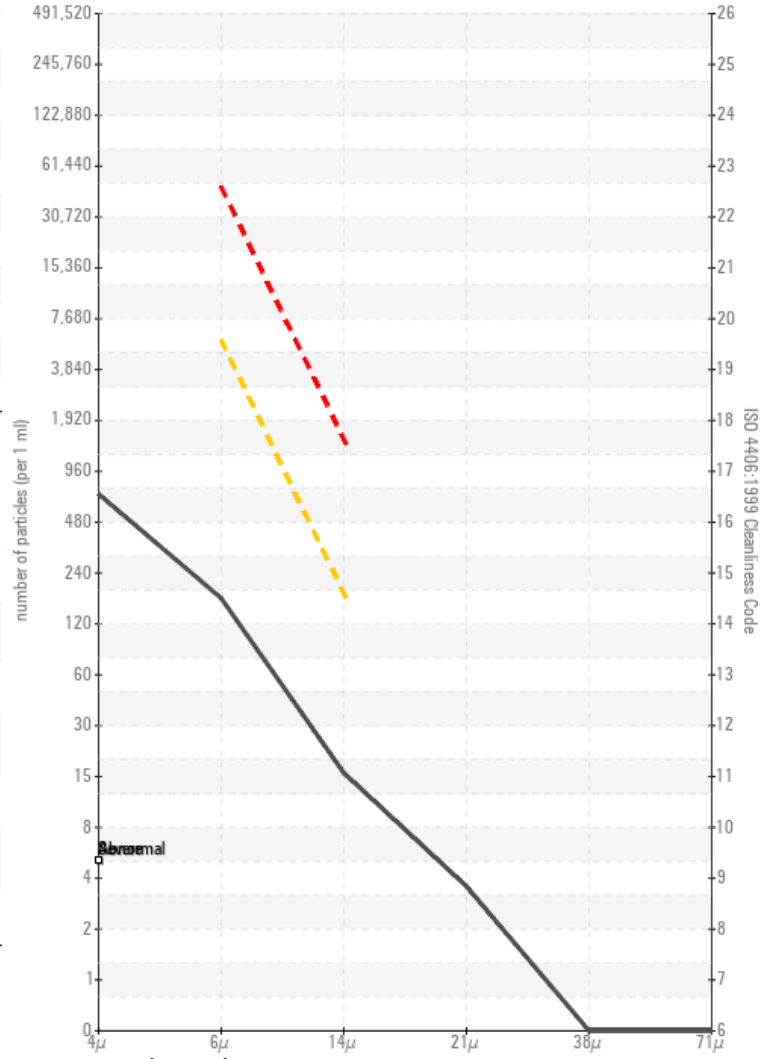


VOLVO GRAPHS

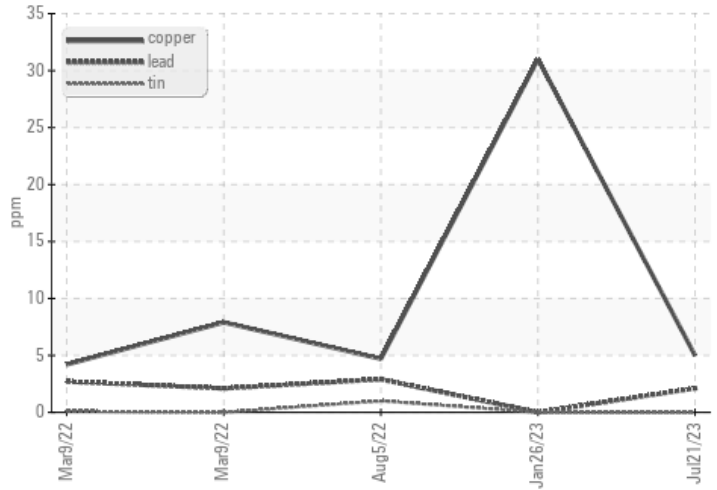
Ferrous Alloys



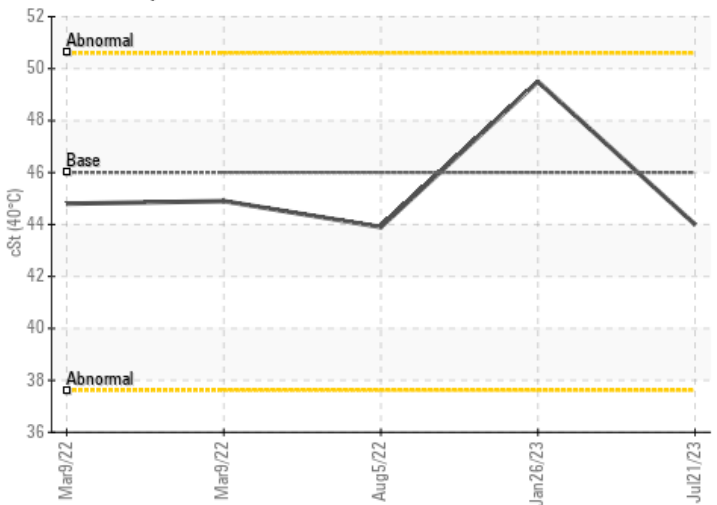
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

