



CONSTRUCTION EQUIPMENT

SWO-063209 VOLVO A30G 742048 - HYDRAULIC SYSTEM



Sample No: VCP414002
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-063209



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP414002 | VCP380976 | VCP372917 | --- |
| Sample Date | 31 Jul 2023 | 10 Jan 2023 | 10 Jul 2022 | --- |
| Machine Hours | 8911 | 8548 | 8263 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Chngd | Not Chngd | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

WHITAKER CONTRACTING

692 CONVICT CAMP RD
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 Contact: BROTHER WHITAKER
 BrotherWhitaker@whitaker-contracting.com
 T: (256)298-3905
 F:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 40°C | cSt | 43.5 | 44.0 | 43.3 | --- |
| Acid Number (AN) | mg KOH/g | 0.40 | 0.37 | 0.38 | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|-----|
| Particles >4µm | | 6320 | 3095 | 5321 | --- |
| Particles >6µm | | 1366 | 859 | 1351 | --- |
| Particles >14µm | | 67 | 66 | 85 | --- |
| ISO 4406:1999 (c) | | 20/18/13 | 19/17/13 | 20/18/14 | --- |
| Silicon | ppm | 3 | 2 | 1 | --- |
| Sodium | ppm | 4 | 2 | 2 | --- |
| Potassium | ppm | <1 | 0 | 0 | --- |

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



ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 94 | 98 | 117 | --- |
| Magnesium | ppm | 14 | 11 | 8 | --- |
| Zinc | ppm | 447 | 431 | 457 | --- |
| Phosphorus | ppm | 351 | 359 | 364 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | <1 | 0 | 0 | --- |

Depot: WHIGUN
Unique No: 10587924
Signed: Wes Davis
Report Date: 07 Aug 2023

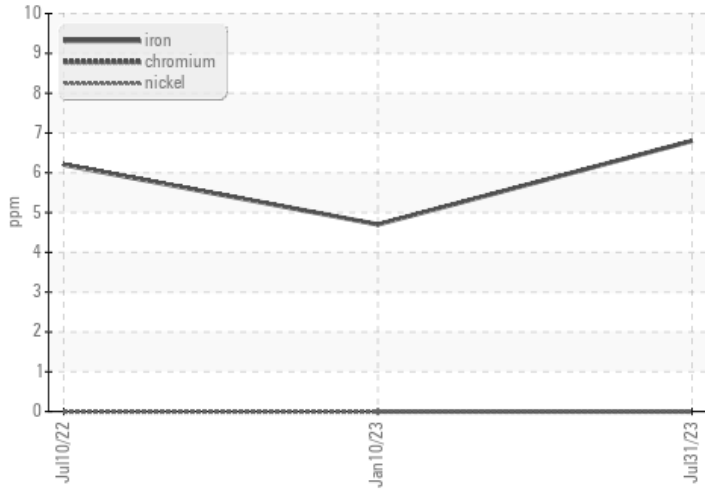


CONSTRUCTION EQUIPMENT

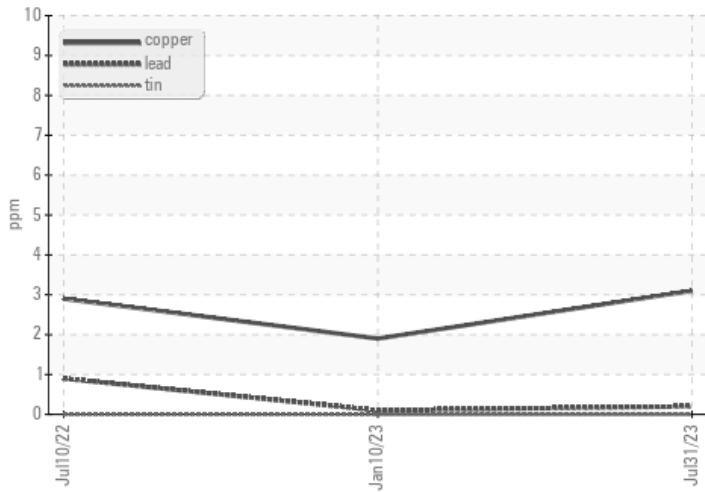


VOLVO GRAPHS

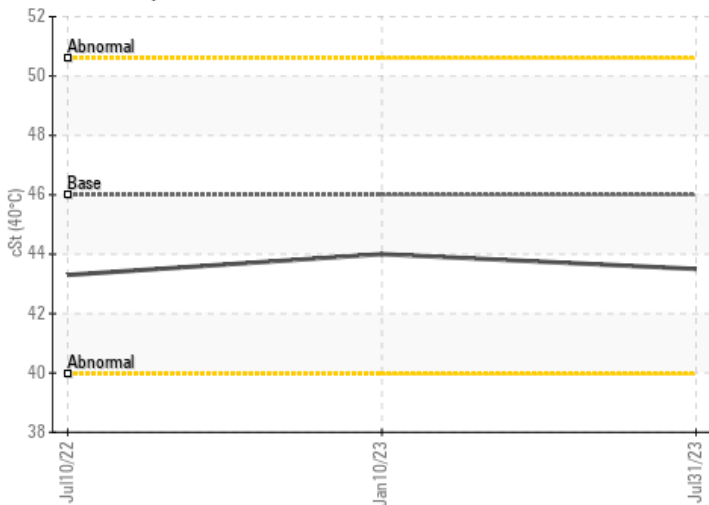
Ferrous Alloys



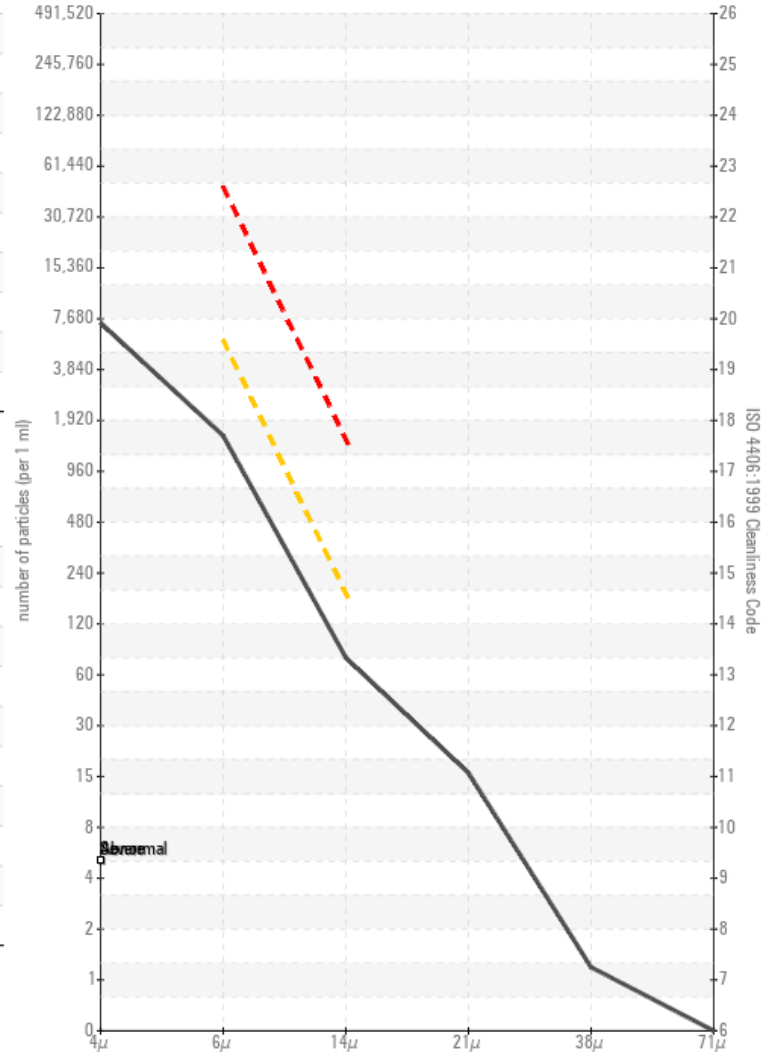
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

