



CONSTRUCTION EQUIPMENT

547345-20 VOLVO A25G 752249 - HYDRAULIC SYSTEM



Sample No: VCP434361
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 547345-20



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP434361 | VCP425181 | --- | --- |
| Sample Date | 02 May 2024 | 10 Jul 2023 | --- | --- |
| Machine Hours | 1693 | 1125 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | N/A | --- | --- |
| Sample Status | NORMAL | ATTENTION | --- | --- |

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 US 48165
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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 40°C | cSt | █ 43.5 | █ 43.9 | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.34 | █ 0.38 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|---------|----------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Particles >4µm | | █ 2586 | ○ 21306 | --- | --- |
| Particles >6µm | | █ 279 | ○ 5490 | --- | --- |
| Particles >14µm | | █ 1 | ○ 220 | --- | --- |
| ISO 4406:1999 (c) | | 19/15/7 | 22/20/15 | --- | --- |
| Silicon | ppm | █ 3 | █ 2 | --- | --- |
| Sodium | ppm | █ 2 | █ 3 | --- | --- |
| Potassium | ppm | █ 2 | █ <1 | --- | --- |

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.
 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 | █ 3 | █ 4 | --- | --- |
| Copper | ppm | █ 4 | █ 3 | --- | --- |
| Lead | ppm | █ 1 | █ 1 | --- | --- |
| Tin | ppm | █ 0 | █ 0 | --- | --- |
| Aluminum | ppm | █ <1 | █ 0 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 0 | <1 | --- | --- |
| Nickel | ppm | █ 0 | █ 0 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | █ <1 | <1 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Calcium | ppm | █ 64 | 57 | --- | --- |
| Magnesium | ppm | █ 2 | 3 | --- | --- |
| Zinc | ppm | █ 454 | 444 | --- | --- |
| Phosphorus | ppm | █ 341 | 350 | --- | --- |
| Barium | ppm | █ 0 | 0 | --- | --- |
| Boron | ppm | █ 0 | 0 | --- | --- |

Depot: VOLVO2990
Unique No: 11015930
Signed: Wes Davis
Report Date: 07 May 2024

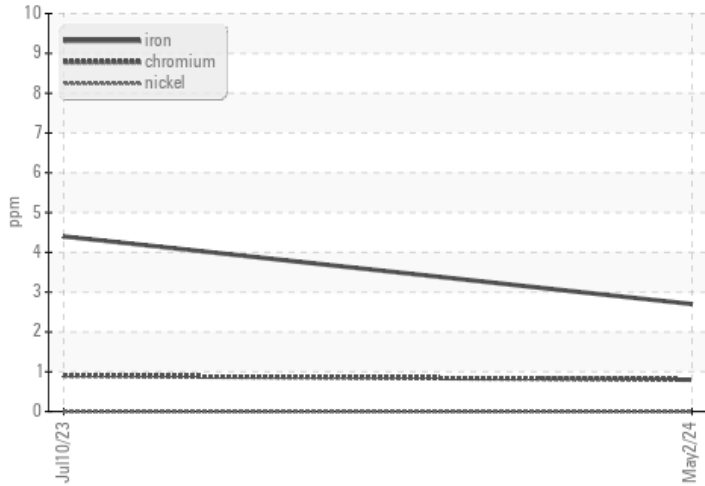


CONSTRUCTION EQUIPMENT

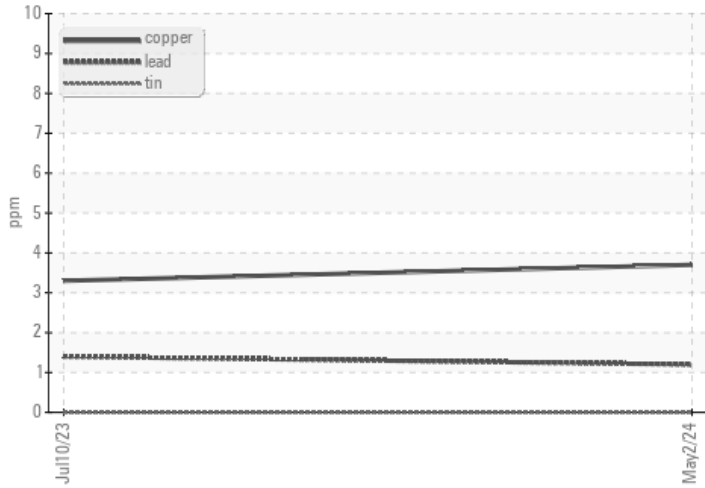


GRAPHS

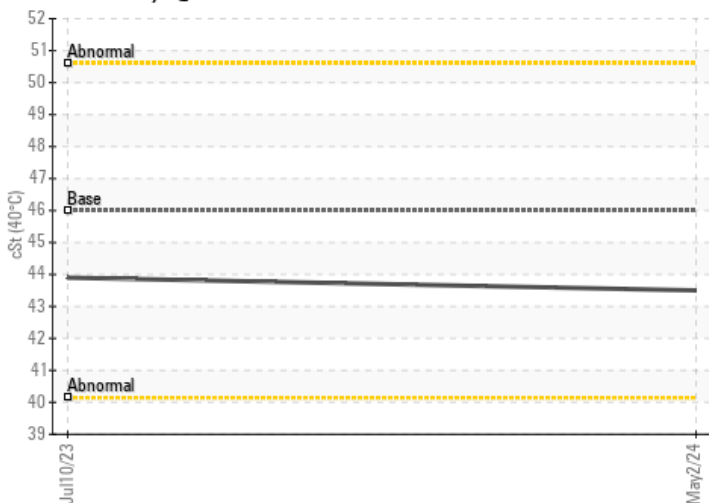
Ferrous Alloys



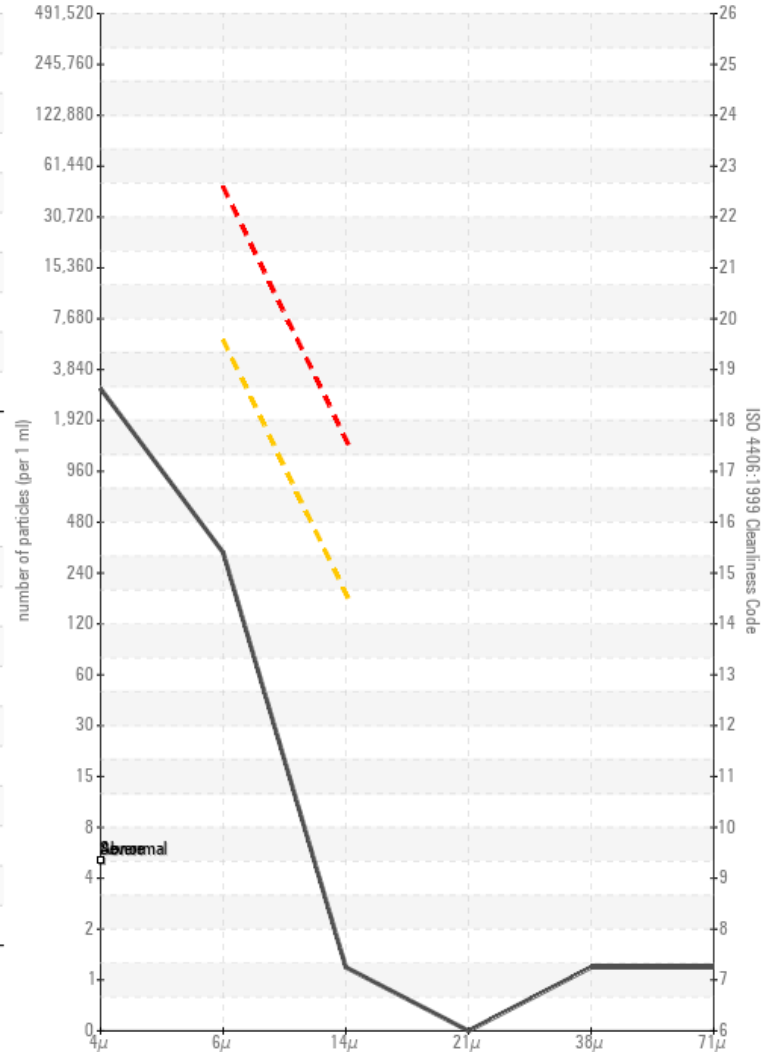
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

