



CONSTRUCTION EQUIPMENT

5505-1 VOLVO A45G 353 141 - HYDRAULIC SYSTEM



Sample No: VCP417044
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 5505-1



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP417044 | --- | --- | --- |
| Sample Date | 23 Aug 2023 | --- | --- | --- |
| Machine Hours | 1999 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 45.5 | --- | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.50 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|------------|-----|-----|-----|
| Particles >4µm | | █ 37081 | --- | --- | --- |
| Particles >6µm | | ▲ 6672 | --- | --- | --- |
| Particles >14µm | | ▲ 553 | --- | --- | --- |
| ISO 4406:1999 (c) | | █ 22/20/16 | --- | --- | --- |
| Silicon | ppm | █ 8 | --- | --- | --- |
| Sodium | ppm | █ 3 | --- | --- | --- |
| Potassium | ppm | █ 0 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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 | █ 4 | --- | --- | --- |
| Copper | ppm | █ <1 | --- | --- | --- |
| Lead | ppm | █ 0 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | █ 0 | --- | --- | --- |
| Chromium | ppm | █ 0 | --- | --- | --- |
| Molybdenum | ppm | █ 2 | --- | --- | --- |
| Nickel | ppm | █ 0 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ 0 | --- | --- | --- |
| Vanadium | ppm | █ <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Calcium | ppm | █ 634 | --- | --- | --- |
| Magnesium | ppm | █ 10 | --- | --- | --- |
| Zinc | ppm | █ 594 | --- | --- | --- |
| Phosphorus | ppm | █ 515 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 19 | --- | --- | --- |

Depot: VOLVO9010
Unique No: 10620591
Signed: Don Baldrige
Report Date: 28 Aug 2023

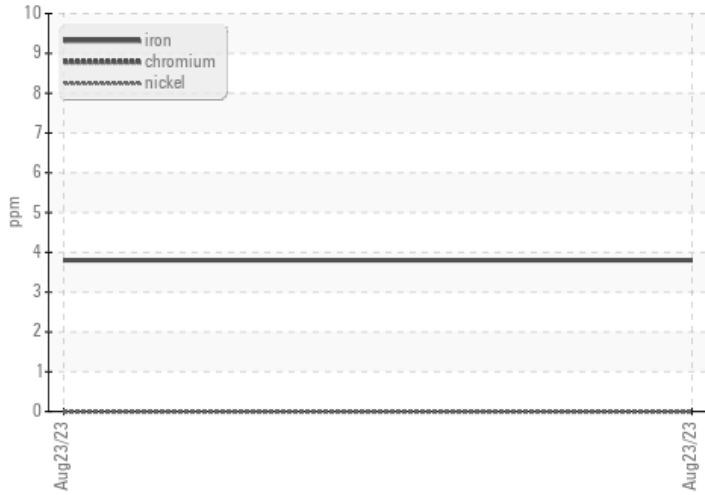


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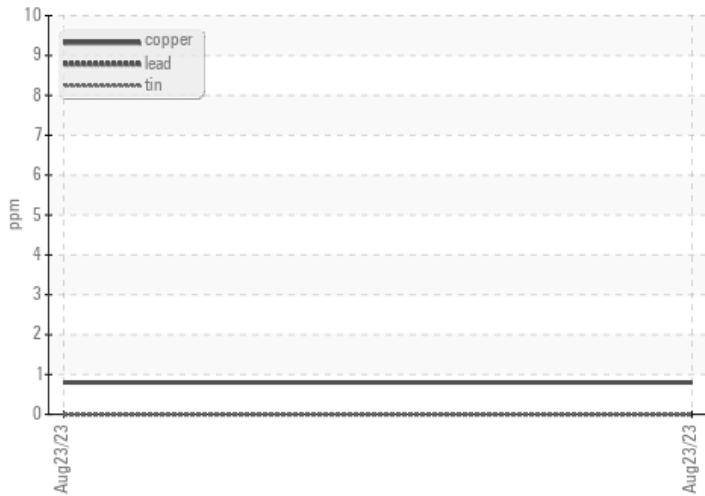


GRAPHS

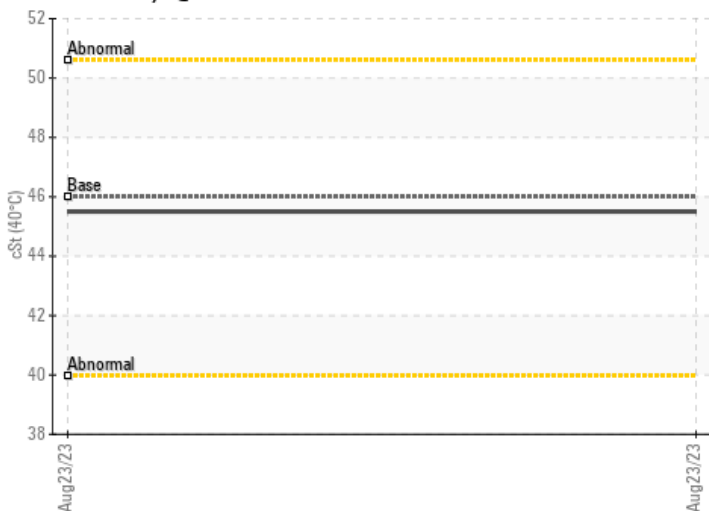
Ferrous Alloys



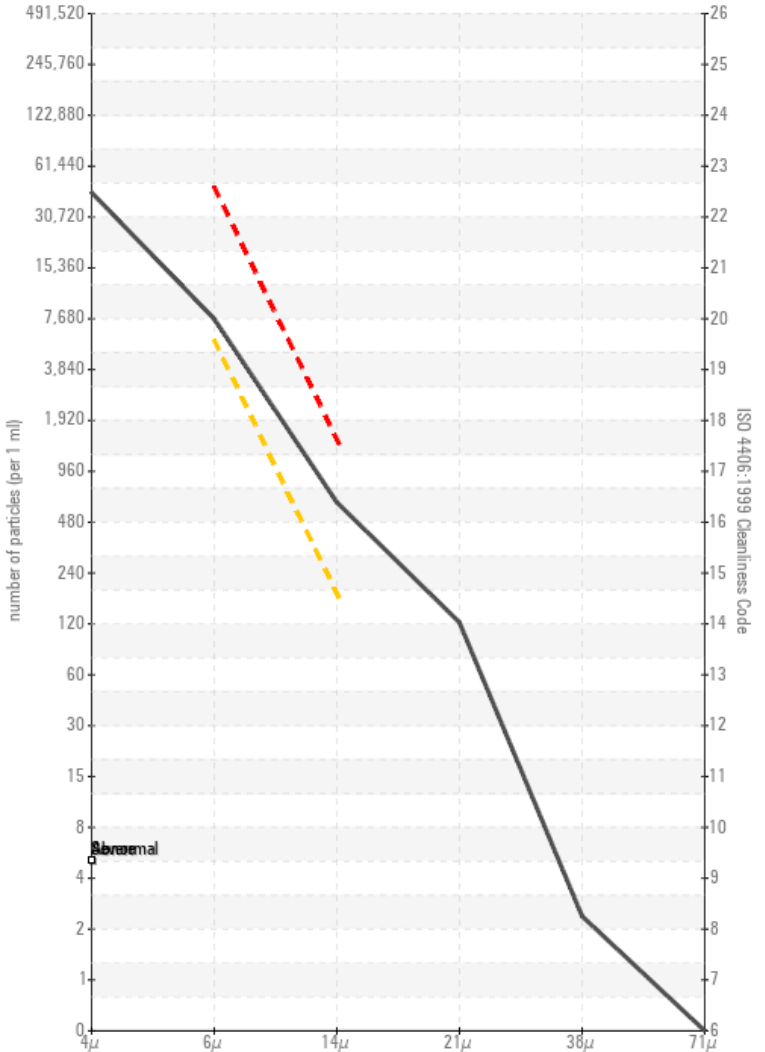
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

