



CONSTRUCTION EQUIPMENT

ALWAYS WORKN VOLVO EC200EL 3 141 19 - HYDRAULIC SYSTEM



Sample No: VCP435822
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: ALWAYS WORKN



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP435822 | VCP313170 | --- | --- |
| Sample Date | 01 Mar 2024 | 13 Apr 2021 | --- | --- |
| Machine Hours | 1539 | 472 | --- | --- |
| Oil Hours | 0 | 472 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | ATTENTION | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|-------|-----|-----|
| Visc @ 40°C | cSt | 63.6 | 44.3 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.55 | 0.484 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|----------------|----------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Particles >4µm | | 3268 | 1759 | --- | --- |
| Particles >6µm | | 90 | 343 | --- | --- |
| Particles >14µm | | 3 | 24 | --- | --- |
| ISO 4406:1999 (c) | | 19/14/9 | 18/16/12 | --- | --- |
| Silicon | ppm | 1 | 4 | --- | --- |
| Sodium | ppm | 2 | <1 | --- | --- |
| Potassium | ppm | <1 | 0 | --- | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

| | | | | | |
|------------|-----|----------|----|-----|-----|
| Iron | ppm | 9 | 3 | --- | --- |
| Copper | ppm | 7 | 39 | --- | --- |
| Lead | ppm | 0 | 1 | --- | --- |
| Tin | ppm | 0 | 1 | --- | --- |
| Aluminum | ppm | 0 | <1 | --- | --- |
| Chromium | ppm | 0 | <1 | --- | --- |
| Molybdenum | ppm | 2 | 0 | --- | --- |
| Nickel | ppm | 0 | <1 | --- | --- |
| Titanium | ppm | 0 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | 0 | 0 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 81 | 144 | --- | --- |
| Magnesium | ppm | 20 | <1 | --- | --- |
| Zinc | ppm | 454 | 473 | --- | --- |
| Phosphorus | ppm | 359 | 395 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | <1 | 0 | --- | --- |

Depot: VOLVO0093
Unique No: 10995713
Signed: Don Baldrige
Report Date: 26 Apr 2024

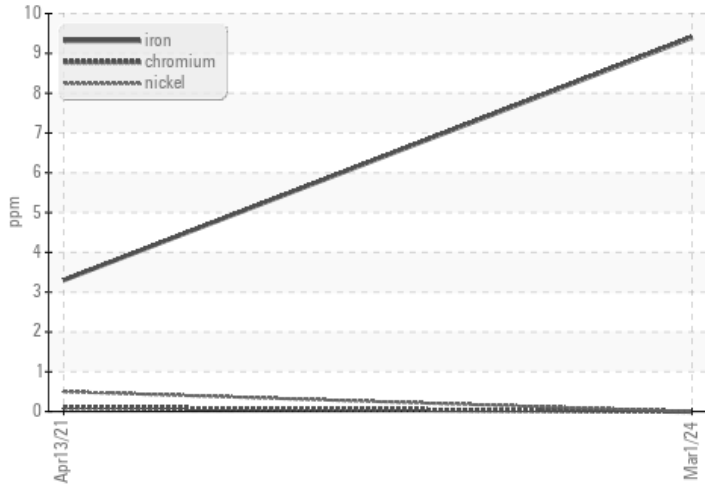


CONSTRUCTION EQUIPMENT

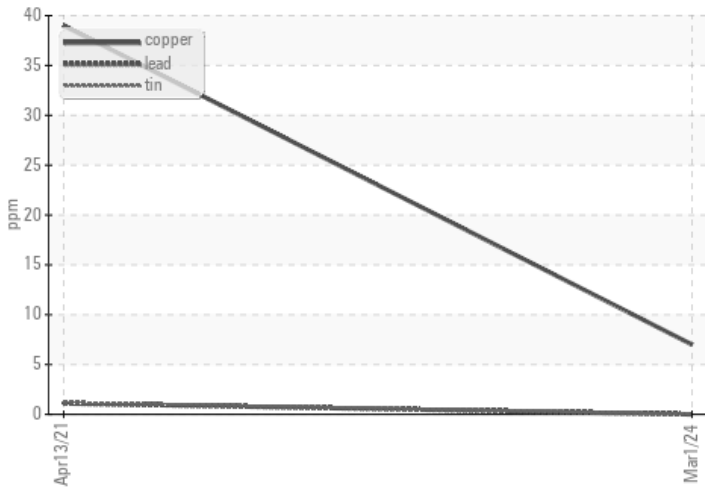


GRAPHS

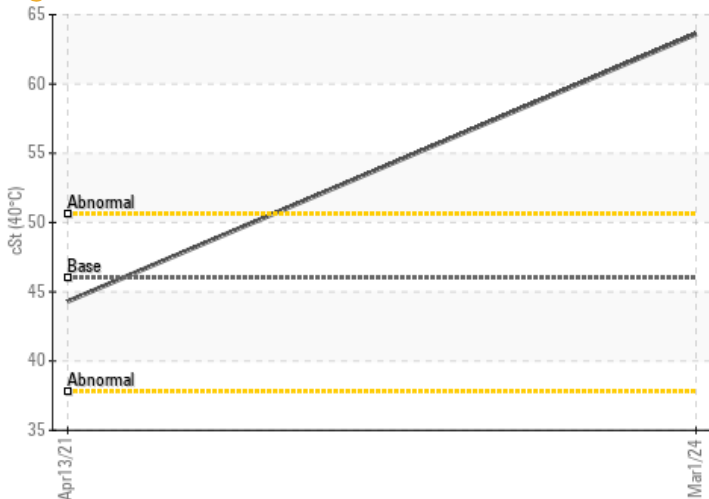
Ferrous Alloys



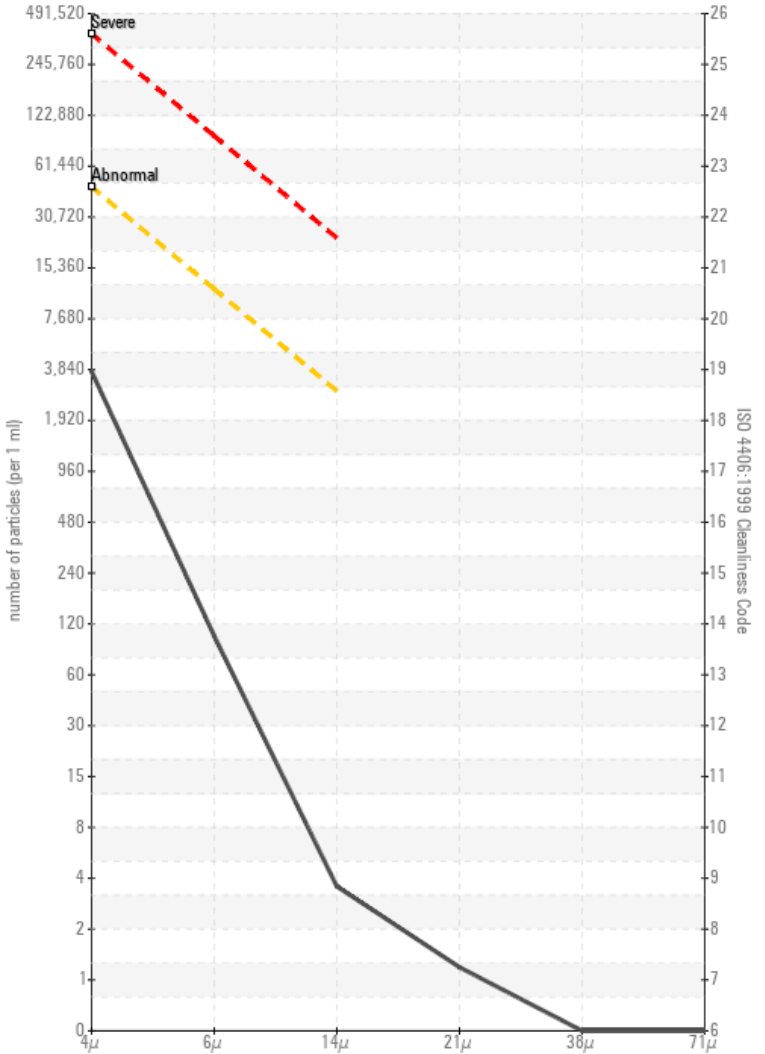
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

