



CONSTRUCTION EQUIPMENT

487803 RENTALS VOLVO 480 315167 - HYDRAULIC SYSTEM



Sample No: VCP454100
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 487803 RENTALS



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP454100 | VCP428730 | VCP415605 | --- |
| Sample Date | 16 Feb 2024 | 19 Dec 2023 | 01 Jun 2023 | --- |
| Machine Hours | 2238 | 1494 | 518 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | N/A | Not Changd | --- |
| Sample Status | SEVERE | SEVERE | ABNORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 40°C | cSt | 45.0 | 41.7 | 42.4 | --- |
| Acid Number (AN) | mg KOH/g | 0.43 | 0.32 | 0.51 | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|---------|-----|
| Water | % | NEG | NEG | ▲ 0.510 | --- |
| Particles >4µm | | ● 67143 | ● 84007 | --- | --- |
| Particles >6µm | | ● 13408 | ● 15700 | --- | --- |
| Particles >14µm | | ▲ 382 | ▲ 724 | --- | --- |
| ISO 4406:1999 (c) | | 23/21/16 | 24/21/17 | --- | --- |
| Silicon | ppm | ■ 5 | ■ 5 | ■ 3 | --- |
| Sodium | ppm | ■ 1 | ■ 3 | ■ <1 | --- |
| Potassium | ppm | ■ 1 | ■ 2 | ■ <1 | --- |

Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

| | | | | | |
|------------|-----|----------------|------|------|-----|
| Iron | ppm | ■ 7 | ■ 9 | ■ 5 | --- |
| Copper | ppm | ■ 21 | ■ 23 | ■ 13 | --- |
| Lead | ppm | ■ 0 | ■ 0 | ■ 0 | --- |
| Tin | ppm | ■ <1 | ■ 0 | ■ 0 | --- |
| Aluminum | ppm | ■ <1 | ■ 2 | ■ 1 | --- |
| Chromium | ppm | ■ 0 | ■ <1 | ■ <1 | --- |
| Molybdenum | ppm | ■ 0 | ■ <1 | ■ 0 | --- |
| Nickel | ppm | ■ <1 | ■ <1 | ■ 0 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | ■ <1 | ■ 0 | ■ <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-------|-------|-----|
| Calcium | ppm | ■ 145 | ■ 58 | ■ 98 | --- |
| Magnesium | ppm | ■ 2 | ■ 5 | ■ 4 | --- |
| Zinc | ppm | ■ 376 | ■ 244 | ■ 520 | --- |
| Phosphorus | ppm | ■ 421 | ■ 341 | ■ 441 | --- |
| Barium | ppm | ■ 0 | ■ 0 | ■ 2 | --- |
| Boron | ppm | ■ 0 | ■ 0 | ■ 0 | --- |

Depot: VOLVO0096
Unique No: 10888321
Signed: Wes Davis
Report Date: 22 Feb 2024

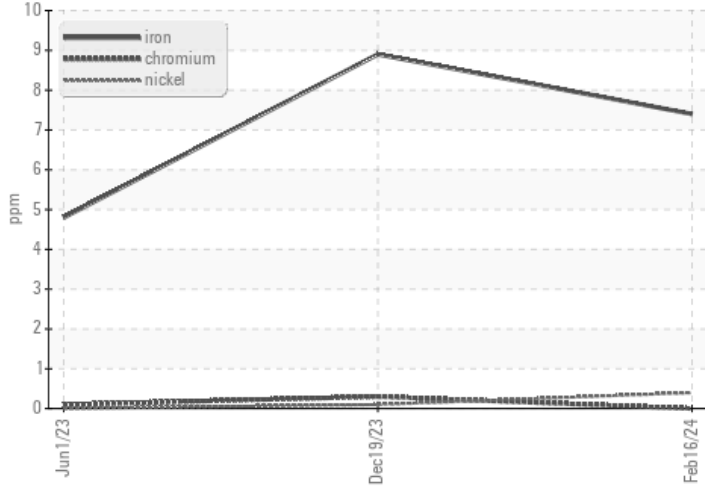


CONSTRUCTION EQUIPMENT

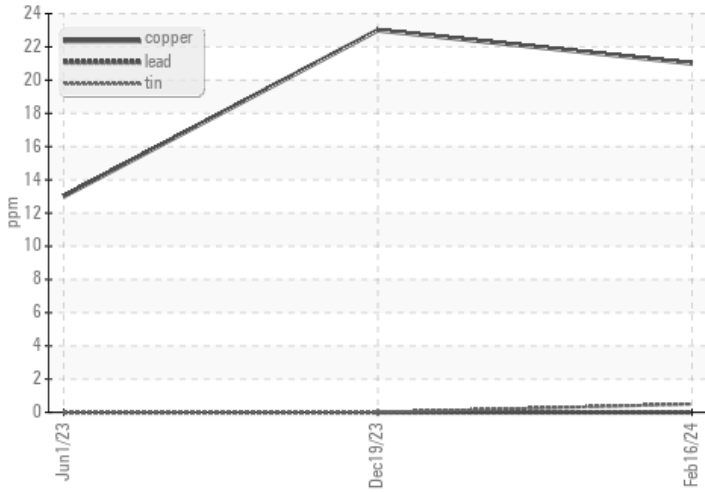


VOLVO GRAPHS

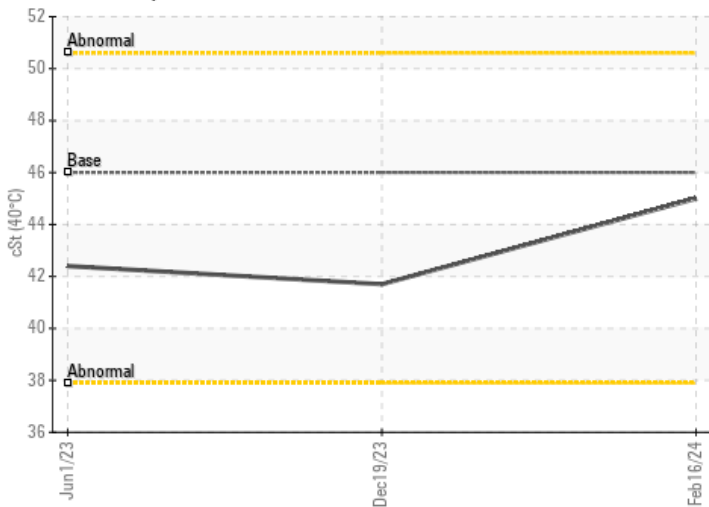
Ferrous Alloys



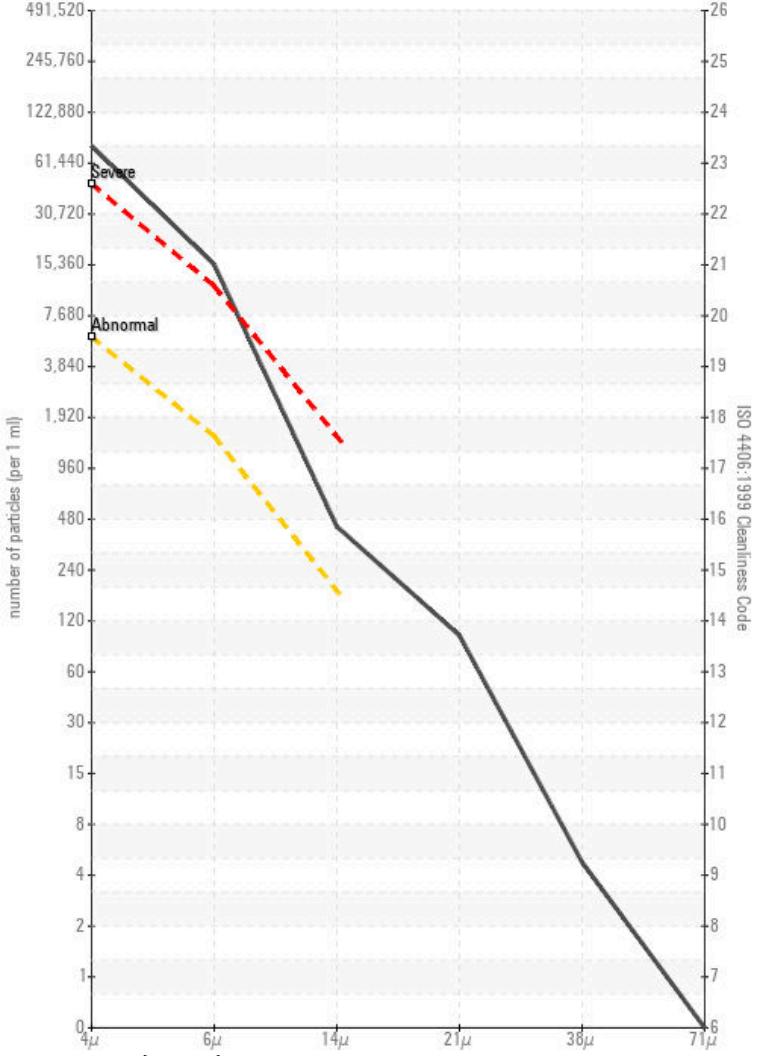
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

