



CONSTRUCTION EQUIPMENT

SPM567082 RENTALS VOLVO L120H 632941 - HYDRAULIC SYSTEM



Sample No: VCP423165
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM567082 RENTALS



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP423165 | VCP423170 | VCP366910 | VCP358333 |
| Sample Date | 21 Jun 2023 | 21 Jun 2023 | 14 Sep 2022 | 05 Apr 2022 |
| Machine Hours | 2611 | 2611 | 2013 | 1182 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Not Changd | Changed | Not Changd |
| Sample Status | ATTENTION | ATTENTION | ATTENTION | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 41.4 | 42.9 | 43.5 | 44.0 |
| Acid Number (AN) | mg KOH/g | 0.27 | 0.25 | 0.33 | 0.36 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Particles >4µm | | ▲ 5857 | ▲ 7694 | ▲ 5997 | ▲ 21117 |
| Particles >6µm | | ■ 1243 | ■ 1173 | ■ 813 | ▲ 4404 |
| Particles >14µm | | ■ 123 | ■ 51 | ■ 35 | ▲ 334 |
| ISO 4406:1999 (c) | | 20/17/14 | 20/17/13 | 20/17/12 | 22/19/16 |
| Silicon | ppm | ■ 2 | ■ 4 | ■ 3 | ■ 3 |
| Sodium | ppm | ■ 1 | ■ 1 | ■ 2 | ■ <1 |
| Potassium | ppm | ■ 1 | ■ <1 | ■ 0 | ■ 0 |

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) 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 | ■ 6 | ■ 4 | ■ 4 |
| Copper | ppm | ■ 2 | ■ 3 | ■ 2 | ■ 2 |
| Lead | ppm | ■ 1 | ■ 1 | ■ 1 | ■ 0 |
| Tin | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Aluminum | ppm | ■ 0 | ■ 0 | ■ <1 | ■ <1 |
| Chromium | ppm | ■ 1 | ■ <1 | ■ <1 | ■ <1 |
| Molybdenum | ppm | ■ 0 | ■ 1 | ■ 1 | ■ 1 |
| Nickel | ppm | ■ <1 | ■ <1 | ■ 0 | ■ <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-------|-------|-------|
| Calcium | ppm | ■ 64 | ■ 58 | ■ 62 | ■ 67 |
| Magnesium | ppm | ■ 0 | ■ 3 | ■ 3 | ■ 4 |
| Zinc | ppm | ■ 428 | ■ 446 | ■ 438 | ■ 432 |
| Phosphorus | ppm | ■ 319 | ■ 333 | ■ 351 | ■ 362 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 2 |

Depot: VOLVO8885
Unique No: 10548657
Signed: Wes Davis
Report Date: 10 Jul 2023

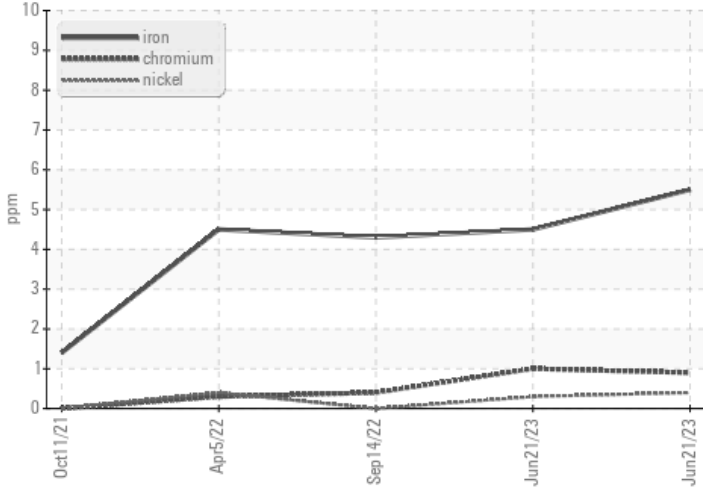


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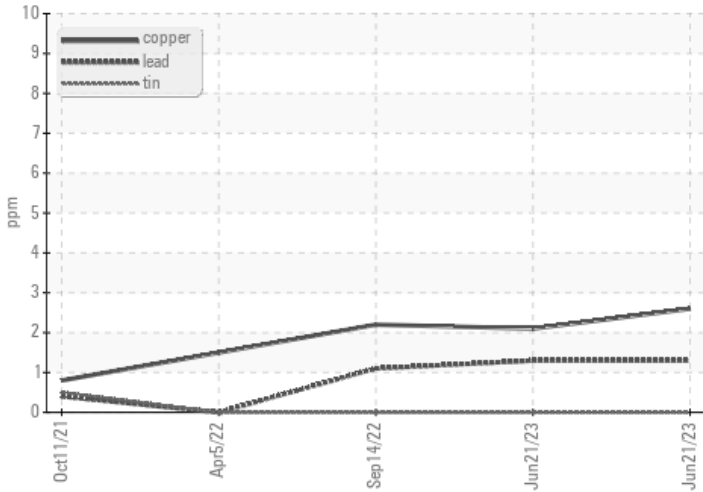


GRAPHS

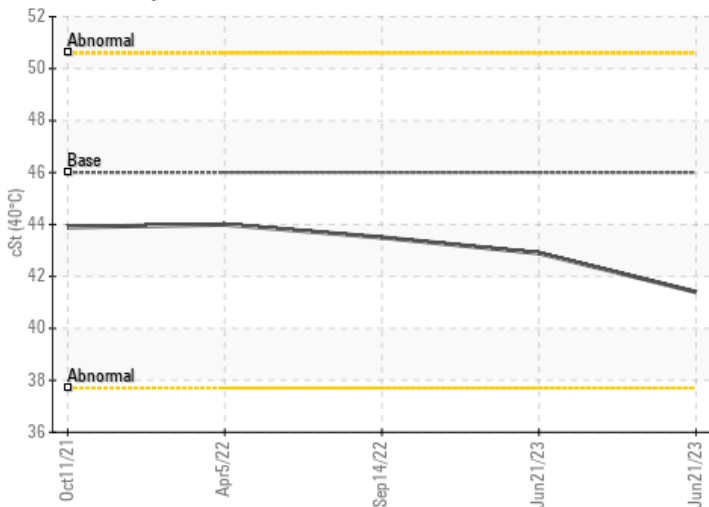
Ferrous Alloys



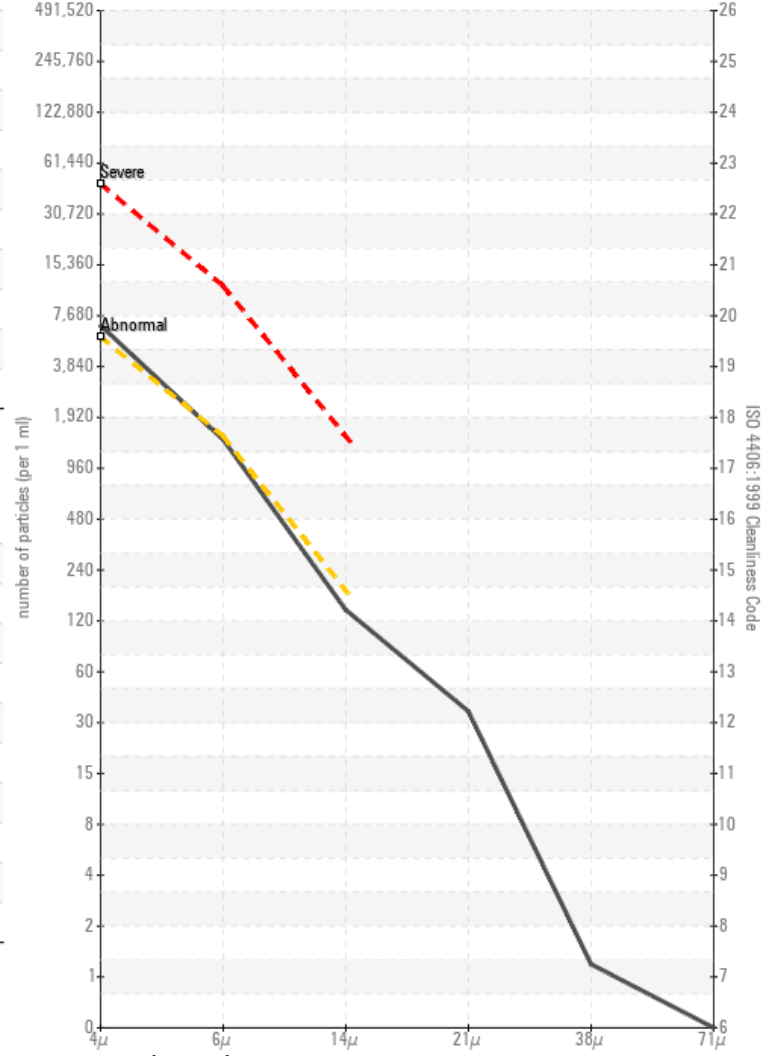
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

