



CONSTRUCTION EQUIPMENT

W14229 VOLVO L220H 2930 - HYDRAULIC SYSTEM



Sample No: VCP405850
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W14229



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP405850 | VCP374228 | VCP375321 | VCP374258 |
| Sample Date | 29 Aug 2023 | 20 Oct 2022 | 18 Aug 2022 | 02 Jun 2022 |
| Machine Hours | 8656 | 8149 | 7751 | 7157 |
| Oil Hours | 500 | 2000 | 1500 | 1000 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | ATTENTION | ABNORMAL | ATTENTION | ATTENTION |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 39.8 | 40.0 | 39.9 | 40.1 |
| Acid Number (AN) | mg KOH/g | 0.38 | 0.39 | 0.37 | 0.42 |

CONTAMINATION

| | | | | | |
|-------------------|-----------------|----------|----------|----------|---|
| Particles >4µm | 5445 | 32202 | 5427 | 6961 | |
| Particles >6µm | 721 | 4334 | 1228 | 2153 | |
| Particles >14µm | 32 | 432 | 55 | 180 | |
| ISO 4406:1999 (c) | 20/17/12 | 22/19/16 | 20/17/13 | 20/18/15 | |
| Silicon | ppm | 4 | 3 | 3 | 3 |
| Sodium | ppm | 0 | <1 | 0 | 4 |
| 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 | 12 | 9 | 8 | 8 |
| Copper | ppm | 2 | 2 | 2 | 2 |
| Lead | ppm | <1 | 1 | <1 | 2 |
| Tin | ppm | 0 | <1 | <1 | 1 |
| Aluminum | ppm | <1 | <1 | 1 | 1 |
| Chromium | ppm | 2 | 2 | 2 | 2 |
| Molybdenum | ppm | 3 | 3 | 3 | 3 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | 0 | <1 | 0 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 145 | 144 | 141 | 152 |
| Magnesium | ppm | 11 | 10 | 8 | 9 |
| Zinc | ppm | 462 | 474 | 460 | 481 |
| Phosphorus | ppm | 358 | 360 | 370 | 401 |
| Barium | ppm | 2 | 0 | 0 | 0 |
| Boron | ppm | <1 | 3 | 4 | 5 |

Depot: VOLVO0080
Unique No: 10632715
Signed: Wes Davis
Report Date: 06 Sep 2023

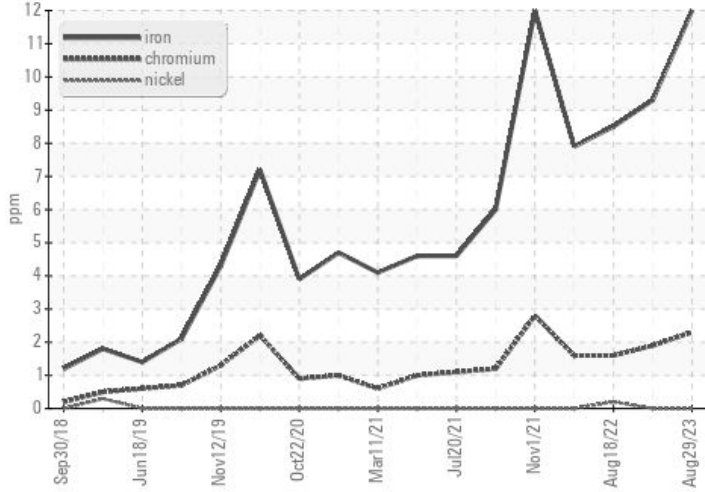


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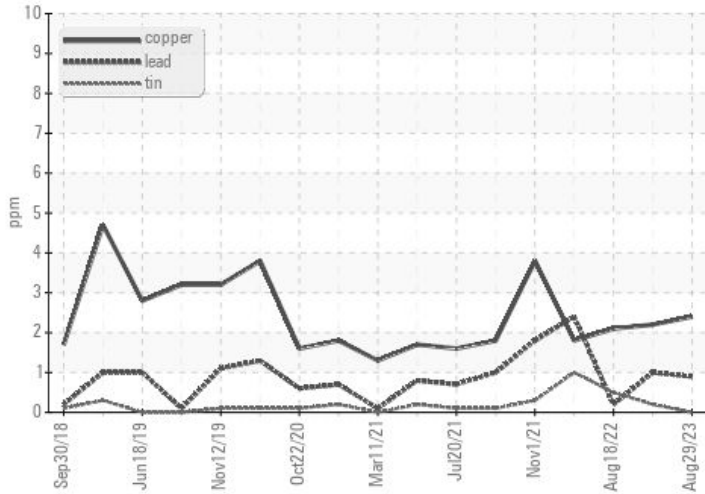


VOLVO GRAPHS

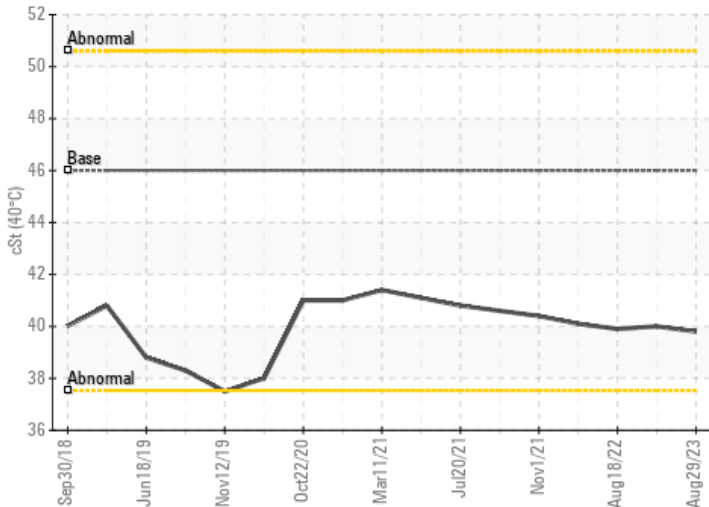
Ferrous Alloys



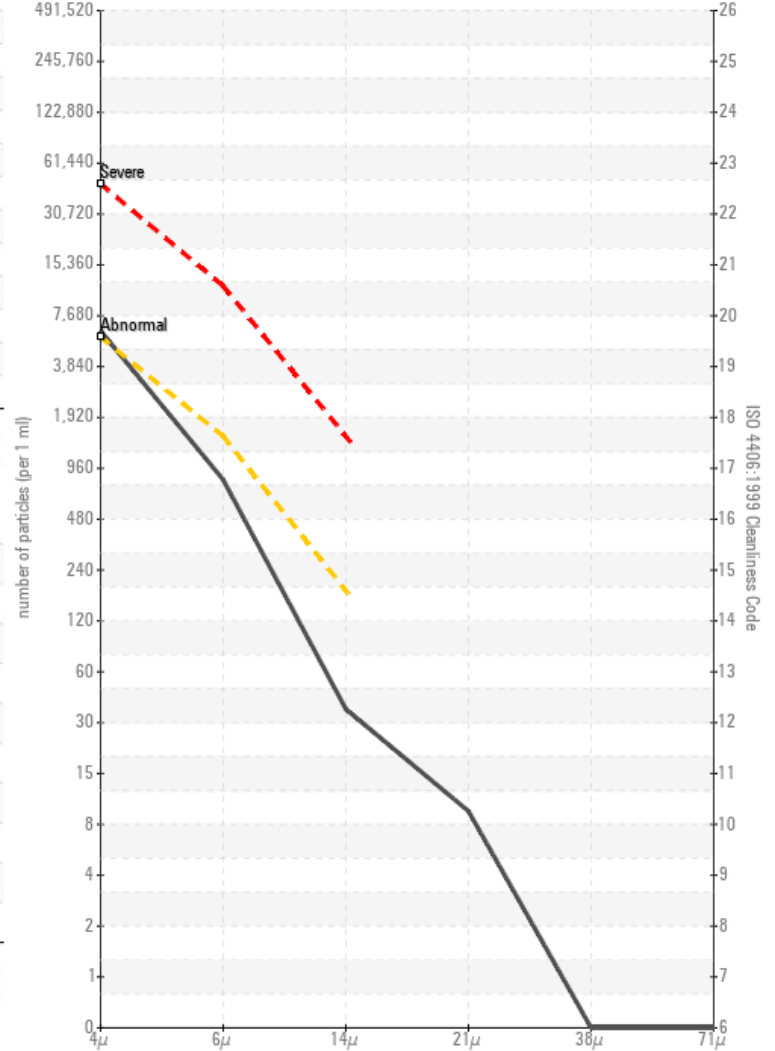
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

