



CONSTRUCTION EQUIPMENT

3751HR VOLVO L220H 2578 - HYDRAULIC SYSTEM



Sample No: VCP402270
Oil Type: SUNOCO SUNVIS 846 ISO 46
Job No: 3751HR



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP402270 | VCP263985 | VCP214678 | --- |
| Sample Date | 14 Sep 2023 | 20 Feb 2020 | 15 Dec 2017 | --- |
| Machine Hours | 16109 | 0 | 1876 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | --- |
| Sample Status | NORMAL | ABNORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|-------|-------|-----|
| Visc @ 40°C | cSt | 43.3 | 41.04 | 38.97 | --- |
| Acid Number (AN) | mg KOH/g | 0.52 | 0.380 | 0.370 | --- |

CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|-----|
| Particles >4µm | | 6129 | 45850 | 8501 | --- |
| Particles >6µm | | 851 | 12406 | 937 | --- |
| Particles >14µm | | 36 | 773 | 72 | --- |
| ISO 4406:1999 (c) | | 20/17/12 | 23/21/17 | 20/17/13 | --- |
| Silicon | ppm | 3 | 5 | 1 | --- |
| Sodium | ppm | 1 | 2 | 1 | --- |
| Potassium | ppm | 1 | 7 | <1 | --- |

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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 4 | 6 | 3 | --- |
| Copper | ppm | 2 | 2 | 5 | --- |
| Lead | ppm | 1 | <1 | 1 | --- |
| Tin | ppm | 0 | 0 | <1 | --- |
| Aluminum | ppm | 0 | <1 | <1 | --- |
| Chromium | ppm | <1 | 4 | <1 | --- |
| Molybdenum | ppm | 1 | 0 | <1 | --- |
| Nickel | ppm | <1 | 0 | <1 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 0 | 0 | 0 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 919 | 73 | 272 | --- |
| Magnesium | ppm | 17 | 2 | 6 | --- |
| Zinc | ppm | 676 | 457 | 458 | --- |
| Phosphorus | ppm | 513 | 359 | 372 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 22 | <1 | 2 | --- |

Depot: PENHAR
Unique No: 10683344
Signed: Don Baldrige
Report Date: 10 Oct 2023

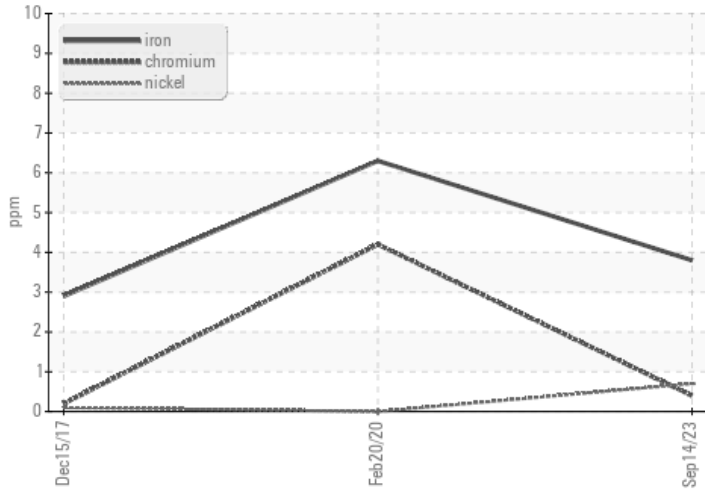


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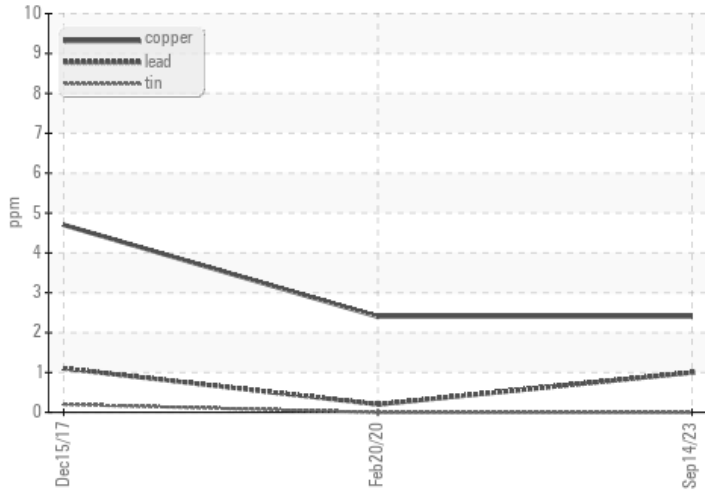


GRAPHS

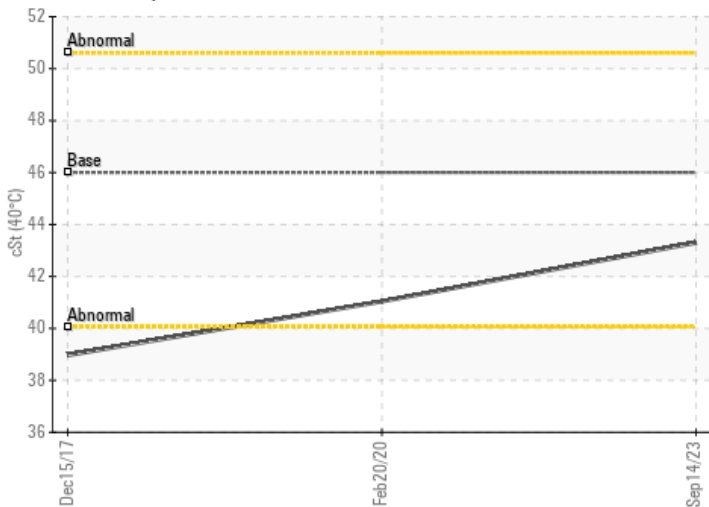
Ferrous Alloys



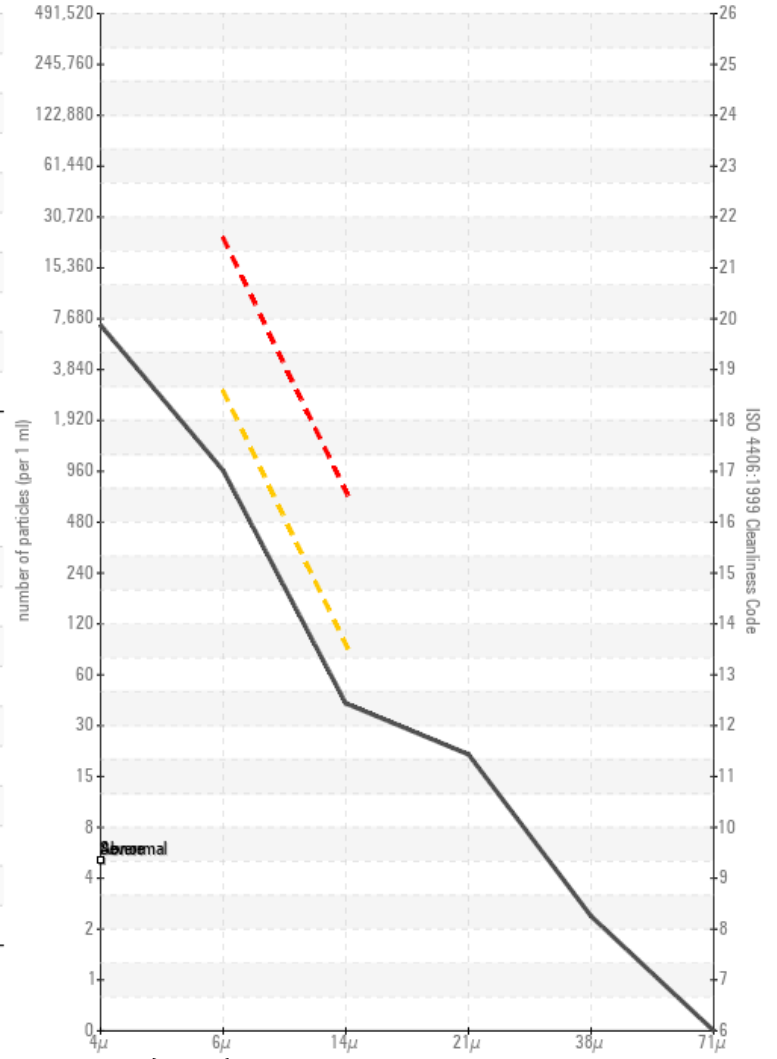
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

