



CONSTRUCTION EQUIPMENT

SWA477490 MELDGAARD VOLVO EC350EL 3 14186 - HYDRAULIC SYSTEM



Sample No: VCP433154
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA477490 MELDGAARD



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP433154 | VCP433834 | VCP404551 | VCP326770 |
| Sample Date | 09 Feb 2024 | 03 Oct 2023 | 28 Mar 2023 | 14 Sep 2021 |
| Machine Hours | 2035 | 1490 | 984 | 455 |
| Oil Hours | 0 | 0 | 0 | 1500 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | ABNORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-------|
| Visc @ 40°C | cSt | 42.7 | 42.8 | 44.6 | 43.7 |
| Acid Number (AN) | mg KOH/g | 0.48 | 0.52 | 0.52 | 0.460 |



CONTAMINATION

| | | | | | |
|-------------------|-----|------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | --- | 7625 | 24394 | 9272 |
| Particles >6µm | | --- | 673 | 5957 | 1267 |
| Particles >14µm | | --- | 56 | 287 | 77 |
| ISO 4406:1999 (c) | | --- | 20/17/13 | 22/20/15 | 20/17/13 |
| Silicon | ppm | 4 | 5 | 4 | 4 |
| Sodium | ppm | 0 | 0 | 0 | <1 |
| Potassium | ppm | 0 | 1 | 1 | 5 |

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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 | 0 | 3 | 1 | 2 |
| Copper | ppm | 39 | 44 | 25 | 17 |
| Lead | ppm | 0 | <1 | 0 | 2 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | 0 | 0 | 0 | 0 |
| Chromium | ppm | 1 | <1 | 0 | <1 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | <1 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | 0 | <1 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 42 | 56 | 61 | 65 |
| Magnesium | ppm | 1 | 1 | 5 | 0 |
| Zinc | ppm | 469 | 626 | 543 | 493 |
| Phosphorus | ppm | 359 | 488 | 413 | 414 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | 0 |

Depot: VOLVO0095
Unique No: 10899790
Signed: Jonathan Hester
Report Date: 29 Feb 2024

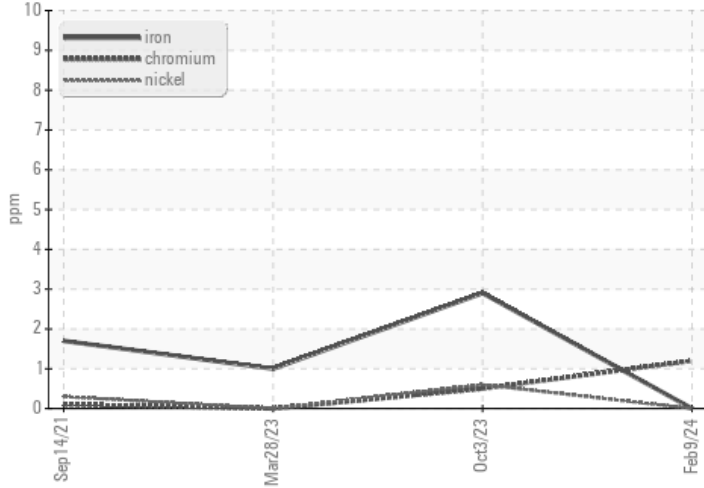


CONSTRUCTION EQUIPMENT

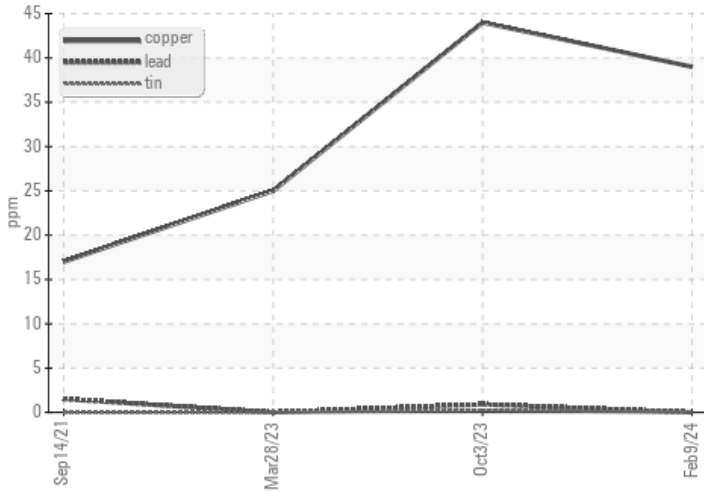


GRAPHS

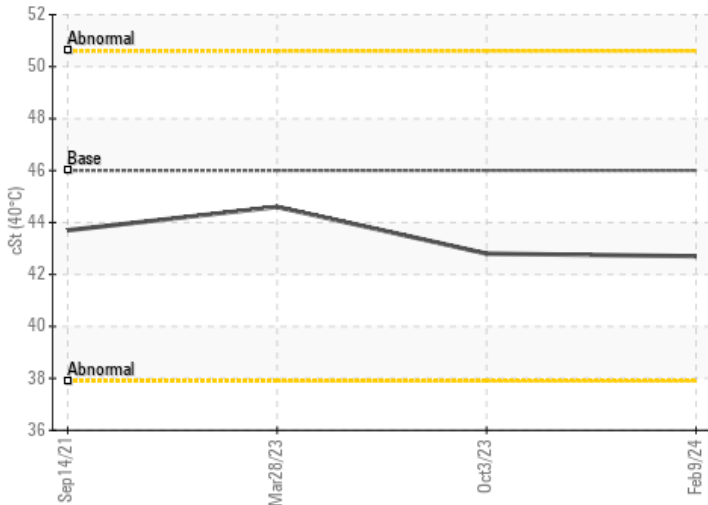
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

