



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO EC380E 314427 - HYDRAULIC SYSTEM



Sample No: VCP450932
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: TUCKER PAVING



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SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP450932 | VCP441673 | VCP422487 | VCP410341 |
| Sample Date | 18 May 2024 | 07 Feb 2024 | 09 Aug 2023 | 13 Mar 2023 |
| Machine Hours | 5148 | 4527 | 4011 | 3403 |
| Oil Hours | 0 | 500 | 2000 | 1403 |
| Oil Changed | Not Chngd | Not Chngd | Changed | Not Chngd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 40.5 | 42.2 | 41.1 | 41.1 |
| Acid Number (AN) | mg KOH/g | 0.42 | 0.71 | 0.51 | 0.42 |

CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 14224 | 4519 | 4166 | 11173 |
| Particles >6µm | | 2549 | 122 | 542 | 1064 |
| Particles >14µm | | 131 | 7 | 45 | 23 |
| ISO 4406:1999 (c) | | 21/19/14 | 19/14/10 | 19/16/13 | 21/17/12 |
| Silicon | ppm | 3 | 3 | 4 | 4 |
| Sodium | ppm | 1 | 2 | 0 | 0 |
| Potassium | ppm | 2 | 2 | <1 | <1 |

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 4 | 3 | 5 | 3 |
| Copper | ppm | 11 | 16 | 17 | 15 |
| Lead | ppm | <1 | <1 | <1 | 0 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | 0 | <1 |
| Chromium | ppm | 4 | 2 | 5 | 4 |
| Molybdenum | ppm | <1 | 0 | <1 | 0 |
| Nickel | ppm | 0 | <1 | 0 | 0 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | 0 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 66 | 101 | 66 | 63 |
| Magnesium | ppm | 2 | 4 | <1 | 4 |
| Zinc | ppm | 459 | 483 | 430 | 505 |
| Phosphorus | ppm | 369 | 372 | 336 | 394 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 0 | <1 | 0 | 0 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0093
Unique No: 11056044
Signed: Wes Davis
Report Date: 30 May 2024

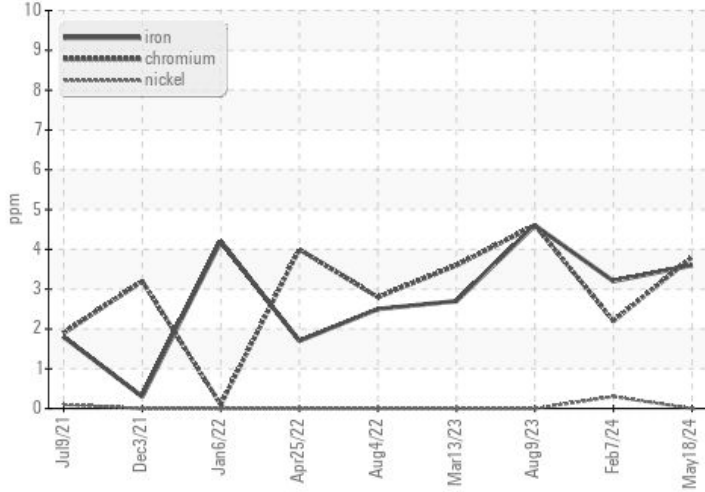


CONSTRUCTION EQUIPMENT

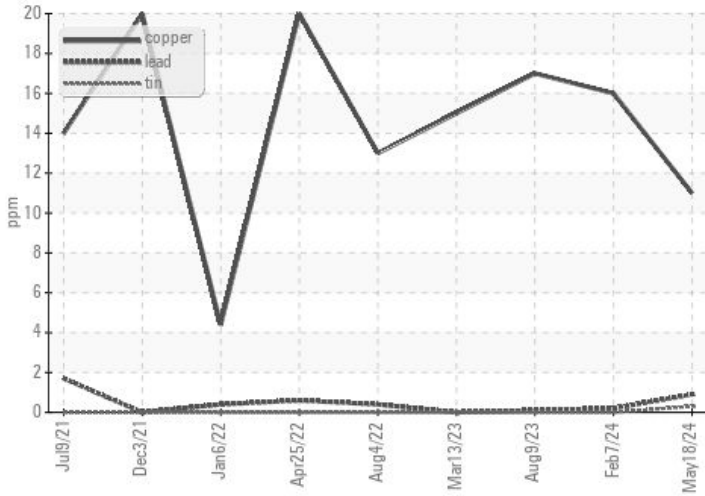


VOLVO GRAPHS

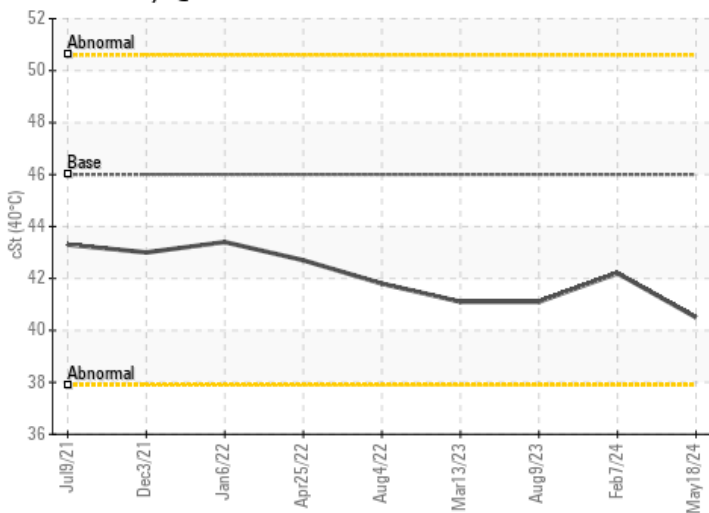
Ferrous Alloys



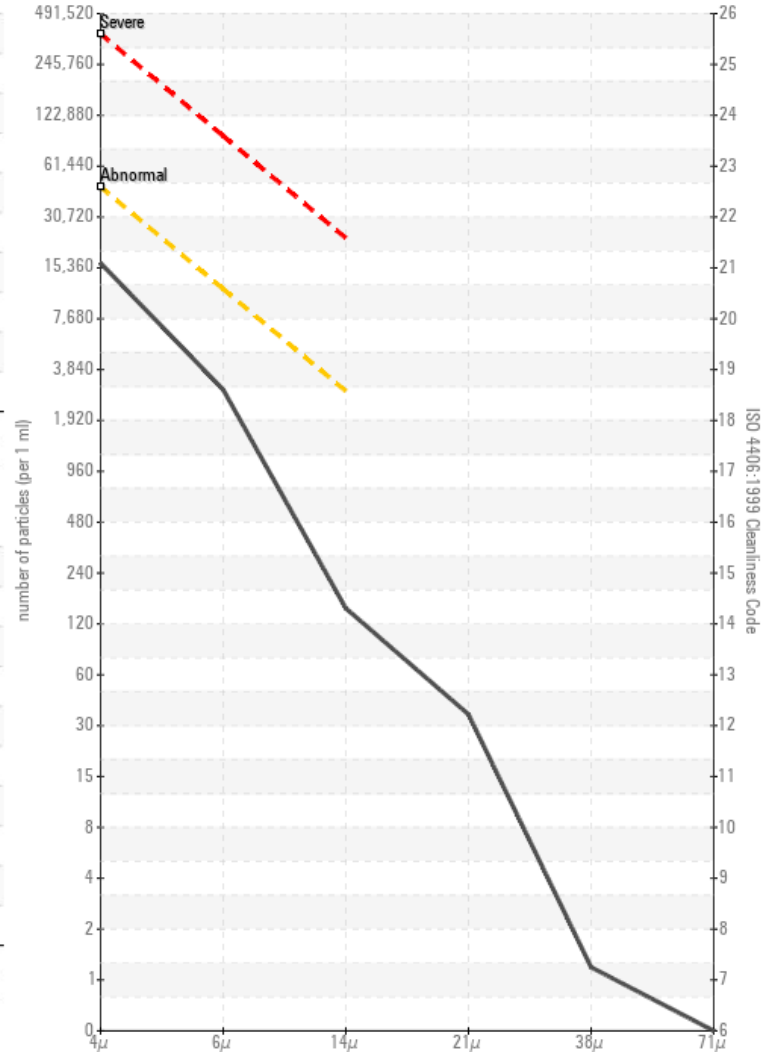
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

