



CONSTRUCTION EQUIPMENT

728449 VOLVO EC480 3 14300 - HYDRAULIC SYSTEM



Sample No: VCP451017
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 728449



SAMPLE INFORMATION

| Sample Number | VCP451017 | VCP393560 | VCP355703 | VCP315516 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 20 Jun 2024 | 08 May 2023 | 27 May 2022 | 24 Jun 2021 |
| Machine Hours | 6215 | 5393 | 4025 | 2062 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Chngd | Changed | Not Chngd |
| Sample Status | ATTENTION | ABNORMAL | NORMAL | ABNORMAL |

FIVE STONES MINE
 MORNING STAR FARM RD
 CANAL POINT, FL
 US 33430
 Contact: Service Manager

OIL CONDITION

| Visc @ 40°C | cSt | 51.0 | 40.9 | 41.9 | 44.9 |
|------------------|----------|------|------|------|-------|
| Acid Number (AN) | mg KOH/g | 0.47 | 0.45 | 0.49 | 0.464 |

T:
F:

CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-------------------|-----|----------|-----|----------|-----|
| Particles >4µm | | 79081 | --- | 18127 | --- |
| Particles >6µm | | 19385 | --- | 3916 | --- |
| Particles >14µm | | 1515 | --- | 198 | --- |
| ISO 4406:1999 (c) | | 23/21/18 | --- | 21/19/15 | --- |
| Silicon | ppm | 4 | 9 | 7 | 4 |
| Sodium | ppm | 1 | <1 | 0 | <1 |
| Potassium | ppm | <1 | <1 | 1 | 0 |

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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 | 3 | 7 | 3 | 3 |
| Copper | ppm | 10 | 19 | 23 | 15 |
| Lead | ppm | 0 | <1 | <1 | <1 |
| Tin | ppm | 0 | 0 | <1 | 0 |
| Aluminum | ppm | <1 | <1 | 1 | 0 |
| Chromium | ppm | <1 | 1 | <1 | <1 |
| Molybdenum | ppm | 1 | 1 | 0 | <1 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | <1 | 0 | 0 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 115 | 72 | 55 | 71 |
| Magnesium | ppm | 16 | 8 | 0 | 0 |
| Zinc | ppm | 455 | 428 | 403 | 465 |
| Phosphorus | ppm | 373 | 374 | 394 | 363 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 2 | 0 | 0 | 1 |

Depot: FIVCAN
Unique No: 11099337
Signed: Don Baldrige
Report Date: 27 Jun 2024

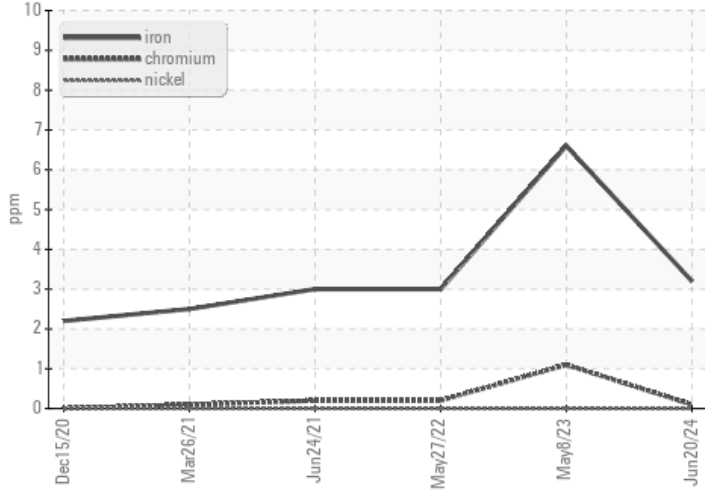


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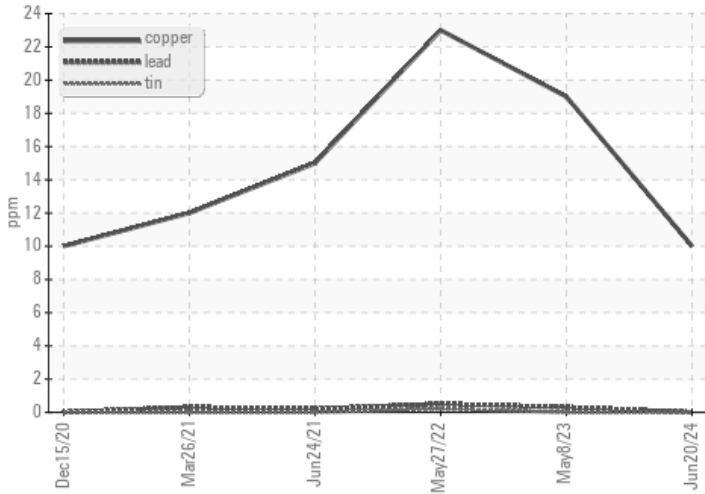


GRAPHS

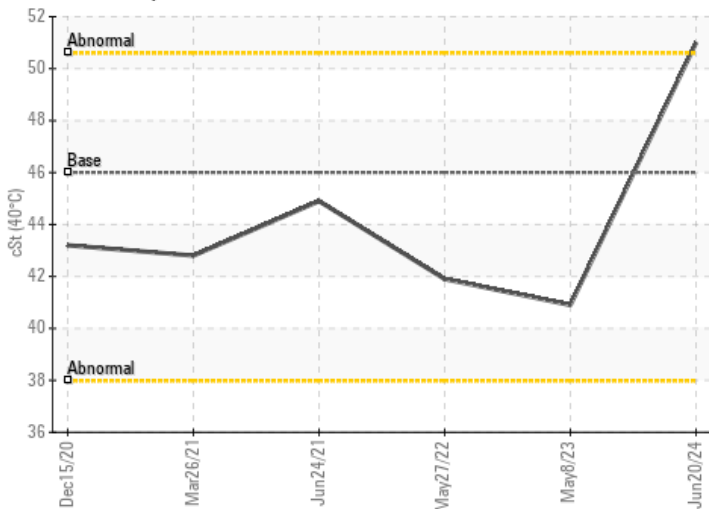
Ferrous Alloys



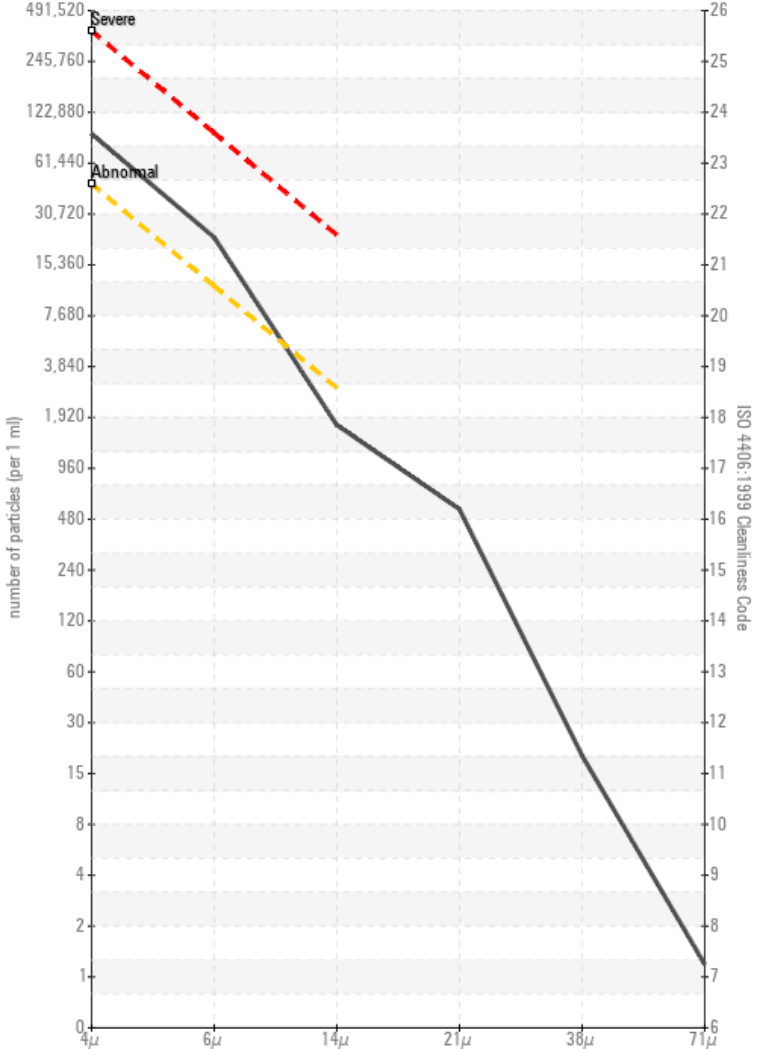
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

