



CONSTRUCTION EQUIPMENT

VOLVO L90H 624538 - HYDRAULIC SYSTEM



Sample No: VCP436525
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP436525 | ASC0006379 | ASC0002683 | VCP410411 |
| Sample Date | 16 Apr 2024 | 11 Jan 2024 | 31 Oct 2023 | 03 Aug 2023 |
| Machine Hours | 10058 | 9518 | 9091 | 8577 |
| Oil Hours | 0 | 8422 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

IAA - INSURANCE AUTO AUCTIONS - CLAYTON
 60 SADISCO RD
 CLAYTON, NC
 US 27520
 Contact: Service Manager



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 39.7 | 41.4 | 44.8 | 45.3 |
| Acid Number (AN) | mg KOH/g | 0.70 | 0.15 | 0.25 | 0.27 |

T:
F:



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 9288 | 787 | 1723 | 1322 |
| Particles >6µm | | 1460 | 190 | 456 | 347 |
| Particles >14µm | | 70 | 21 | 17 | 22 |
| ISO 4406:1999 (c) | | 20/18/13 | 17/15/12 | 18/16/11 | 18/16/12 |
| Silicon | ppm | 2 | 2 | 2 | 1 |
| Sodium | ppm | 3 | 0 | 0 | <1 |
| Potassium | ppm | 2 | 1 | 2 | <1 |

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.



WEAR METALS

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



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 477 | 525 | 69 | 64 |
| Magnesium | ppm | 7 | 9 | 9 | 11 |
| Zinc | ppm | 534 | 562 | 412 | 399 |
| Phosphorus | ppm | 437 | 446 | 308 | 320 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 13 | 14 | 0 | 0 |

Depot: INSCLA
Unique No: 10983075
Signed: Wes Davis
Report Date: 19 Apr 2024

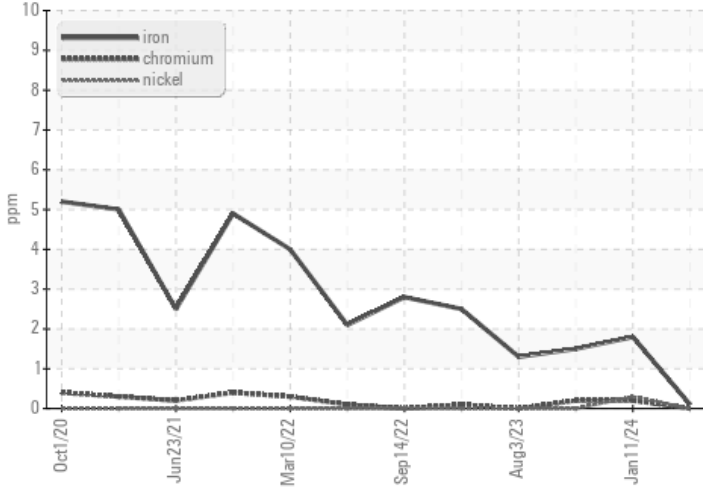


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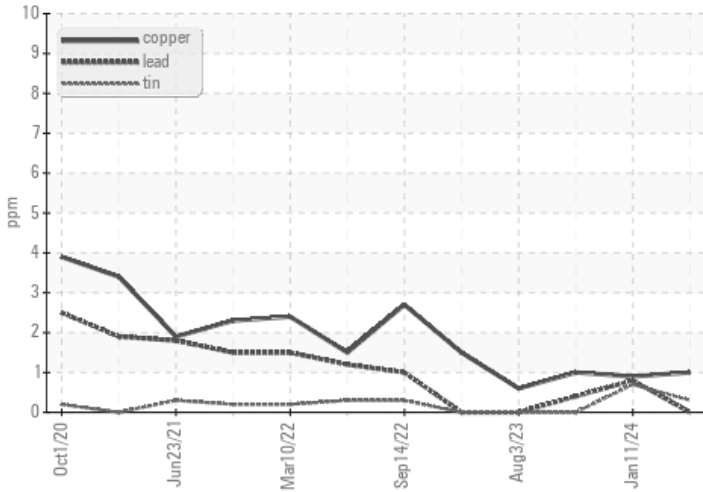


GRAPHS

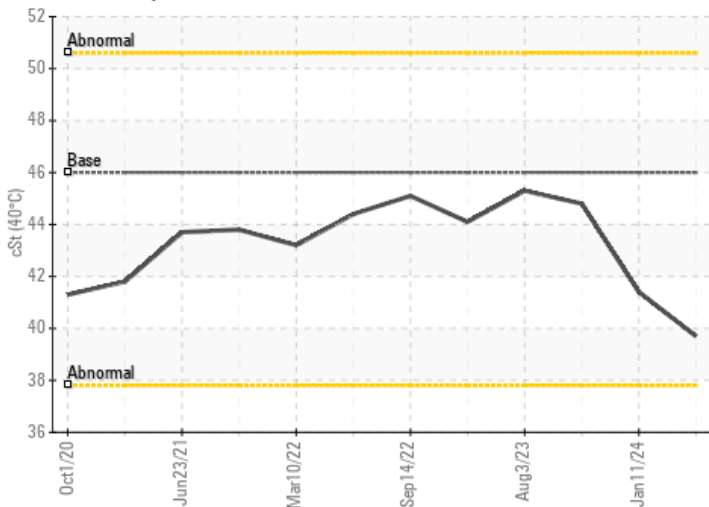
Ferrous Alloys



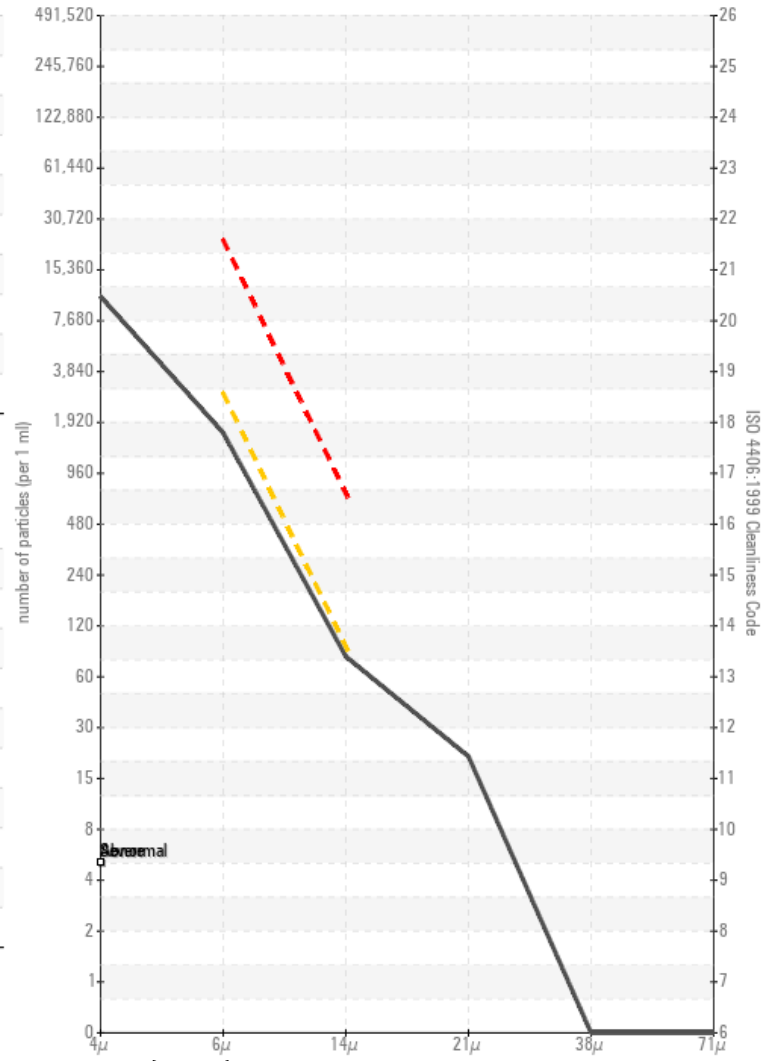
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

