



CONSTRUCTION EQUIPMENT

VOLVO L120H 633400 - HYDRAULIC SYSTEM



Sample No: VCP443909
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP443909 | VCP438993 | VCP437220 | VCP442187 |
| Sample Date | 13 Jun 2024 | 12 Apr 2024 | 20 Feb 2024 | 19 Oct 2023 |
| Machine Hours | 3134 | 0 | 2033 | 1010 |
| Oil Hours | 0 | 0 | 0 | 1010 |
| Oil Changed | Changed | Changed | Changed | Not Changd |
| Sample Status | ABNORMAL | ATTENTION | NORMAL | ABNORMAL |

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 221 OLD GATE LN
 MILFORD, CT
 US 06460
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 T: (203)223-3885
 F:

OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 43.7 | 42.7 | 41.2 | 41.5 |
| Acid Number (AN) | mg KOH/g | 0.30 | 0.37 | 0.49 | 0.35 |

CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 13413 | 1982 | 2572 | 11841 |
| Particles >6µm | | 4403 | 891 | 712 | 2849 |
| Particles >14µm | | 379 | 176 | 101 | 192 |
| ISO 4406:1999 (c) | | 21/19/16 | 18/17/15 | 19/17/14 | 21/19/15 |
| Silicon | ppm | 1 | <1 | 3 | 2 |
| Sodium | ppm | 1 | 2 | 0 | 0 |
| Potassium | ppm | 1 | 0 | 2 | 1 |

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 2 | 2 | 5 | 4 |
| Copper | ppm | 1 | <1 | 2 | 1 |
| Lead | ppm | 0 | 0 | 1 | 1 |
| Tin | ppm | 0 | <1 | <1 | <1 |
| Aluminum | ppm | 0 | 0 | <1 | 1 |
| Chromium | ppm | <1 | <1 | 2 | <1 |
| Molybdenum | ppm | 6 | 6 | 14 | 1 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | <1 | 0 | <1 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 292 | 266 | 468 | 59 |
| Magnesium | ppm | 23 | 15 | 39 | 4 |
| Zinc | ppm | 504 | 393 | 522 | 437 |
| Phosphorus | ppm | 404 | 345 | 371 | 345 |
| Barium | ppm | 0 | 0 | 5 | 0 |
| Boron | ppm | 5 | 3 | 10 | 0 |

Depot: CITMILCON
Unique No: 11099334
Signed: Wes Davis
Report Date: 27 Jun 2024

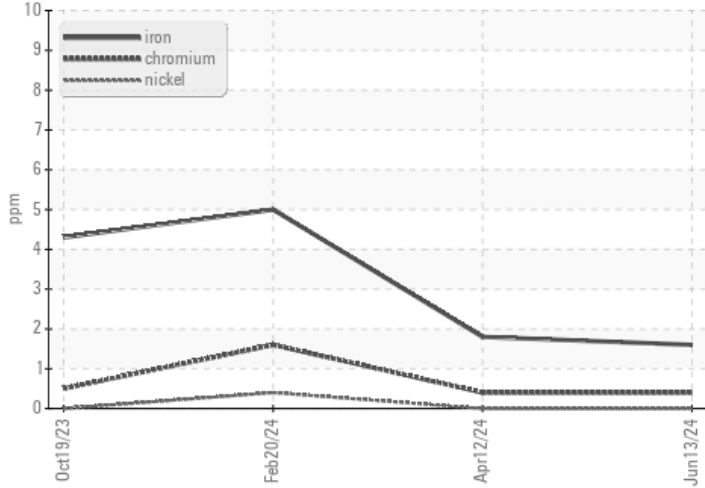


CONSTRUCTION EQUIPMENT

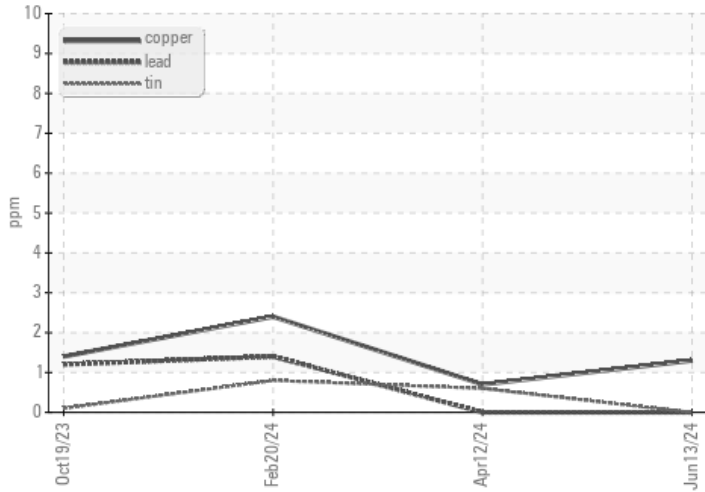


GRAPHS

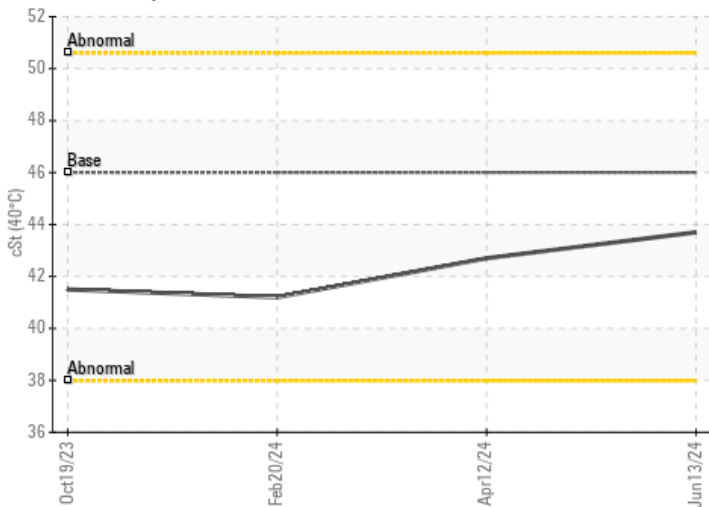
Ferrous Alloys



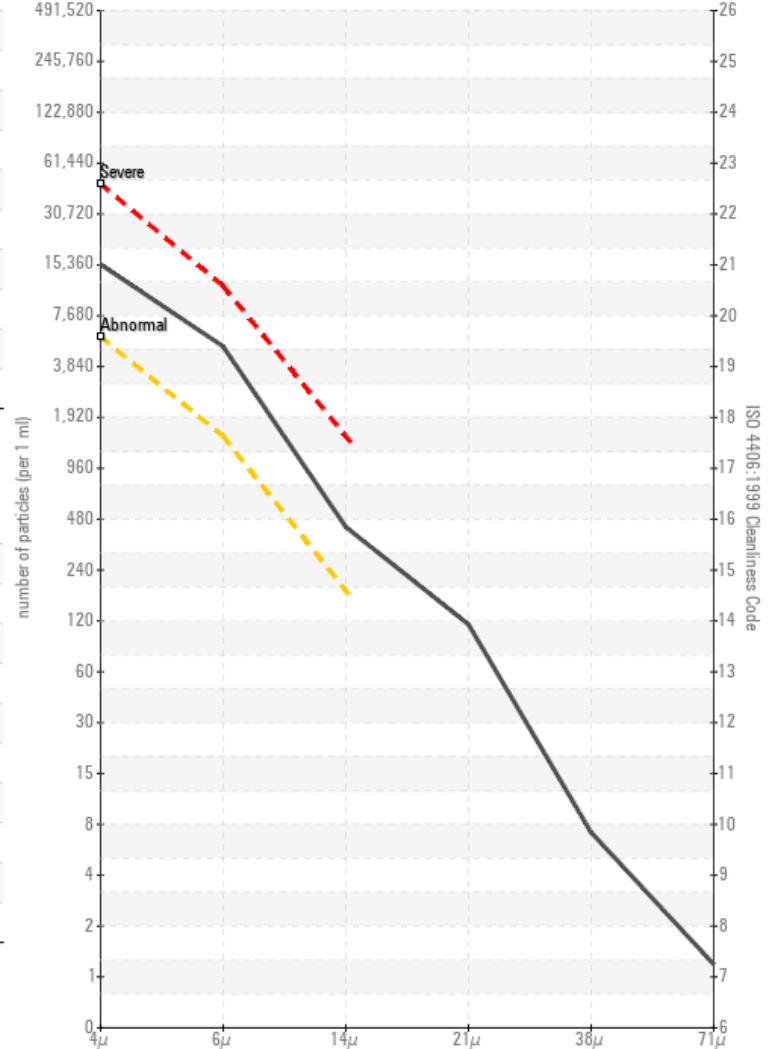
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

