



CONSTRUCTION EQUIPMENT

702925 VOLVO L220H 3368 - HYDRAULIC SYSTEM



Sample No: VCP454719
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 702925



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP454719 | VCP445975 | VCP432373 | VCP415562 |
| Sample Date | 24 Apr 2024 | 14 Feb 2024 | 12 Dec 2023 | 18 Jul 2023 |
| Machine Hours | 5581 | 5101 | 4672 | 3780 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | ABNORMAL | NORMAL | NORMAL | NORMAL |

BLUE GOOSE GROWERS
 16059 W ORANGE AVE
 FT PIERCE, FL
 US 34945
 Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 44.1 | 43.0 | 44.2 | 41.0 |
| Acid Number (AN) | mg KOH/g | 0.26 | 0.39 | 0.43 | 0.36 |

T: (772)461-3020
 F:



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 23705 | 11213 | 30786 | 35782 |
| Particles >6µm | | 2176 | 1017 | 1169 | 1152 |
| Particles >14µm | | 161 | 59 | 70 | 68 |
| ISO 4406:1999 (c) | | 22/18/15 | 21/17/13 | 22/17/13 | 22/17/13 |
| Silicon | ppm | 0 | 1 | 1 | 1 |
| Sodium | ppm | 1 | 2 | 2 | 4 |
| Potassium | ppm | 0 | 3 | 2 | 0 |

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 4 | 4 | 2 | 6 |
| Copper | ppm | 1 | 2 | 1 | 3 |
| Lead | ppm | 0 | 1 | <1 | 0 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | 0 | <1 | <1 | <1 |
| Chromium | ppm | <1 | <1 | <1 | 1 |
| Molybdenum | ppm | 2 | 0 | 0 | 0 |
| Nickel | ppm | 0 | <1 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 112 | 88 | 87 | 50 |
| Magnesium | ppm | 13 | 15 | 13 | 1 |
| Zinc | ppm | 440 | 450 | 460 | 431 |
| Phosphorus | ppm | 354 | 349 | 350 | 350 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | <1 | 0 |

Depot: BLUFOR
Unique No: 11004998
Signed: Wes Davis
Report Date: 01 May 2024

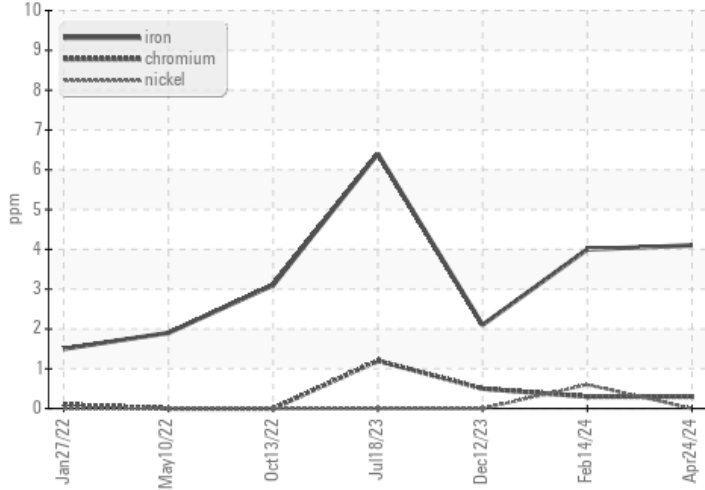


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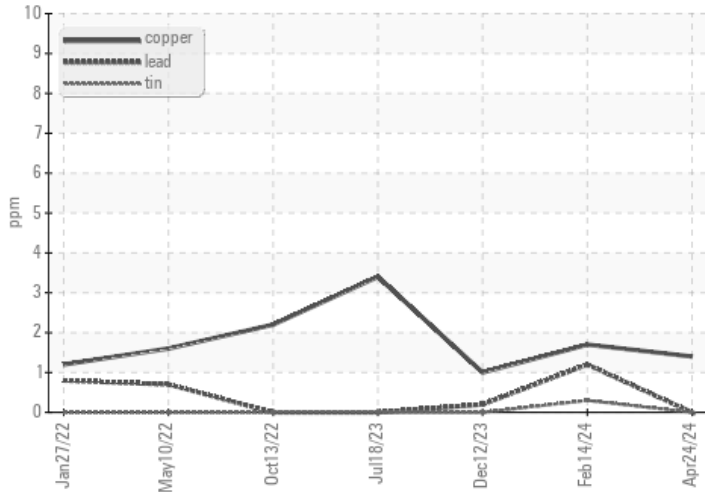


GRAPHS

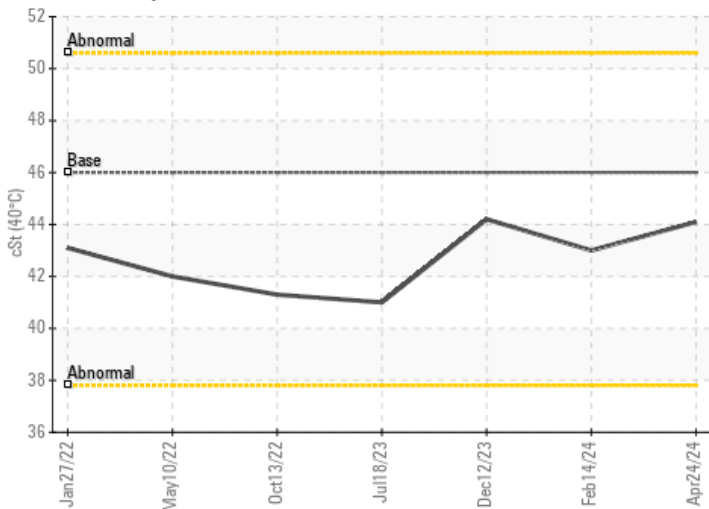
Ferrous Alloys



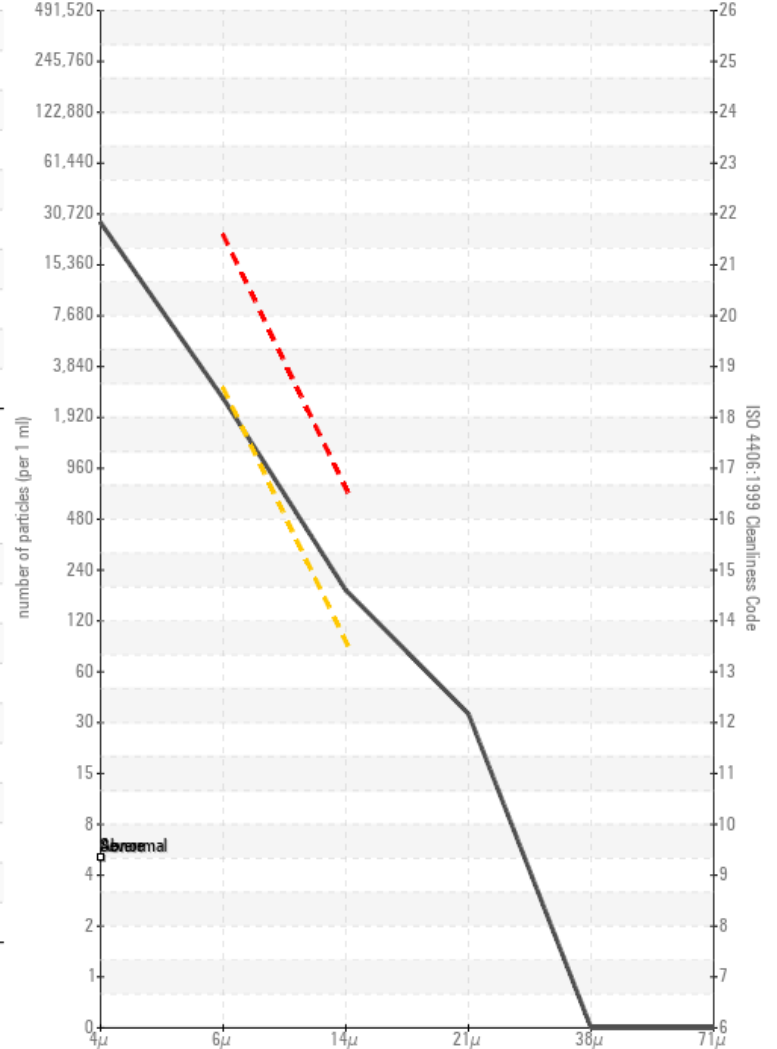
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

