



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2280 - HYDRAULIC SYSTEM



Sample No: VCP440406
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP440406 | VCP395448 | VCP356867 | --- |
| Sample Date | 26 Mar 2024 | 06 Dec 2022 | 11 Apr 2022 | --- |
| Machine Hours | 23153 | 18802 | 17824 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Not Changd | --- |
| Sample Status | ATTENTION | ABNORMAL | ABNORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 40°C | cSt | 52.2 | 43.1 | 42.5 | --- |
| Acid Number (AN) | mg KOH/g | 0.56 | 0.53 | 0.72 | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Particles >4µm | | 7338 | 61809 | 15868 | --- |
| Particles >6µm | | 1656 | 4819 | 2176 | --- |
| Particles >14µm | | 65 | 341 | 84 | --- |
| ISO 4406:1999 (c) | | 20/18/13 | 23/19/16 | 21/18/14 | --- |
| Silicon | ppm | 3 | 6 | 8 | --- |
| Sodium | ppm | 0 | 5 | 8 | --- |
| Potassium | ppm | <1 | <1 | 2 | --- |

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 | <1 | 14 | 18 | --- |
| Copper | ppm | <1 | 1 | 3 | --- |
| Lead | ppm | 1 | <1 | 1 | --- |
| Tin | ppm | 1 | <1 | <1 | --- |
| Aluminum | ppm | 1 | 1 | 3 | --- |
| Chromium | ppm | <1 | <1 | <1 | --- |
| Molybdenum | ppm | 6 | 5 | 2 | --- |
| Nickel | ppm | <1 | 0 | 0 | --- |
| Titanium | ppm | <1 | <1 | <1 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | <1 | <1 | <1 | --- |
| Vanadium | ppm | <1 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 278 | 421 | 455 | --- |
| Magnesium | ppm | 50 | 30 | 30 | --- |
| Zinc | ppm | 491 | 511 | 609 | --- |
| Phosphorus | ppm | 426 | 405 | 461 | --- |
| Barium | ppm | 0 | <1 | 0 | --- |
| Boron | ppm | 7 | 13 | 11 | --- |

Depot: VOLVO1835
Unique No: 10977330
Signed: Don Baldrige
Report Date: 16 Apr 2024

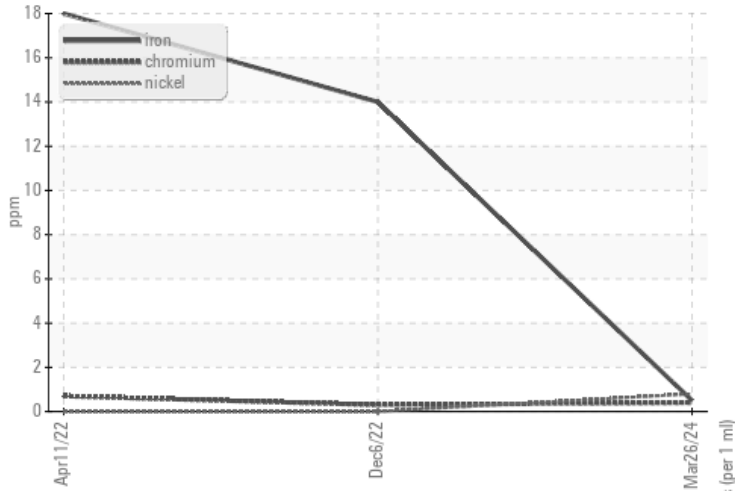


CONSTRUCTION EQUIPMENT

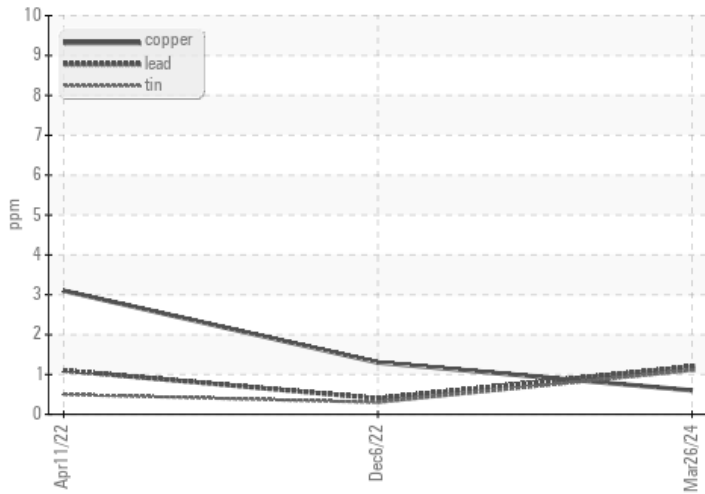


GRAPHS

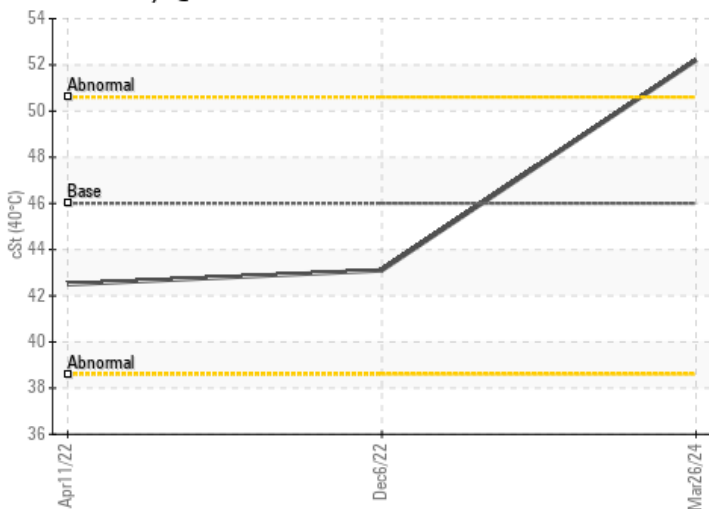
Ferrous Alloys



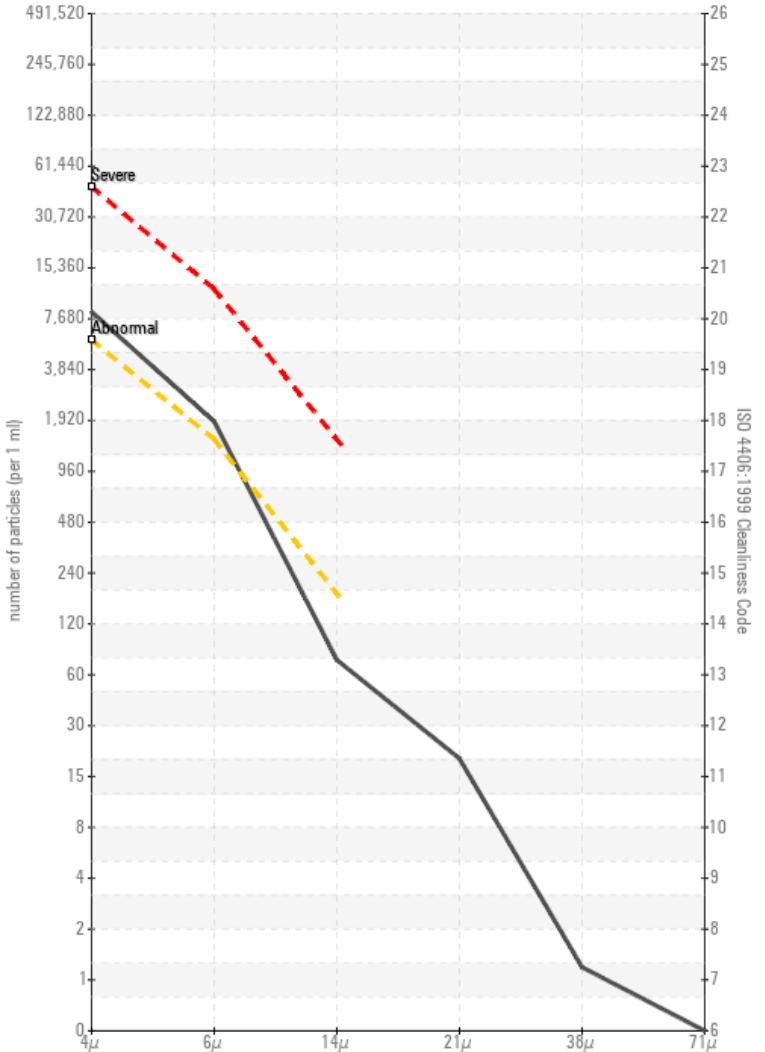
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

