



CONSTRUCTION EQUIPMENT

SPM701872 VOLVO L350H 1011 - HYDRAULIC SYSTEM



Sample No: VCP427271
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM701872



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP427271 | VCP422622 | VCP365356 | --- |
| Sample Date | 15 Apr 2024 | 18 May 2023 | 30 Jul 2022 | --- |
| Machine Hours | 9455 | 6873 | 5213 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Chngd | Changed | Not Chngd | --- |
| Sample Status | ABNORMAL | NORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|-------|------|-----|
| Visc @ 40°C | cSt | 43.4 | 38.23 | 45.2 | --- |
| Acid Number (AN) | mg KOH/g | 0.53 | 0.56 | 0.56 | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Particles >4µm | | 126988 | 34992 | 494 | --- |
| Particles >6µm | | ▲ 12282 | 1725 | 70 | --- |
| Particles >14µm | | ▲ 196 | 46 | 9 | --- |
| ISO 4406:1999 (c) | | 24/21/15 | 22/18/13 | 16/13/10 | --- |
| Silicon | ppm | 5 | 19 | 5 | --- |
| Sodium | ppm | 4 | 0 | 2 | --- |
| Potassium | ppm | 0 | 4 | 0 | --- |

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 7 | 16 | 3 | --- |
| Copper | ppm | <1 | 7 | <1 | --- |
| Lead | ppm | 0 | 1 | <1 | --- |
| Tin | ppm | 0 | <1 | <1 | --- |
| Aluminum | ppm | <1 | 7 | 2 | --- |
| Chromium | ppm | 2 | 1 | <1 | --- |
| Molybdenum | ppm | <1 | <1 | 1 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 0 | 0 | 0 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 892 | 263 | 972 | --- |
| Magnesium | ppm | 10 | 71 | 15 | --- |
| Zinc | ppm | 653 | 719 | 699 | --- |
| Phosphorus | ppm | 535 | 551 | 510 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 26 | 4 | 41 | --- |

Depot: VOLVO8885
Unique No: 10995715
Signed: Don Baldrige
Report Date: 26 Apr 2024

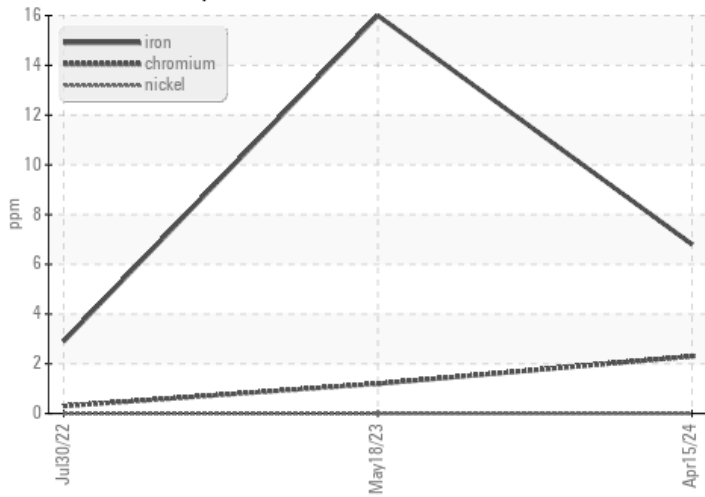


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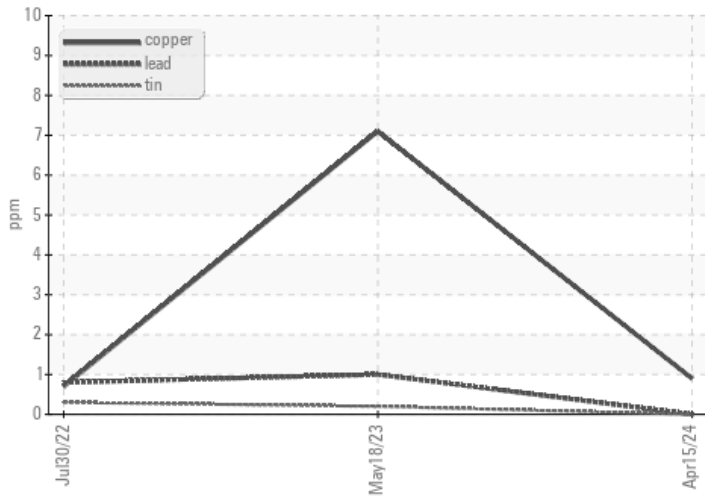


GRAPHS

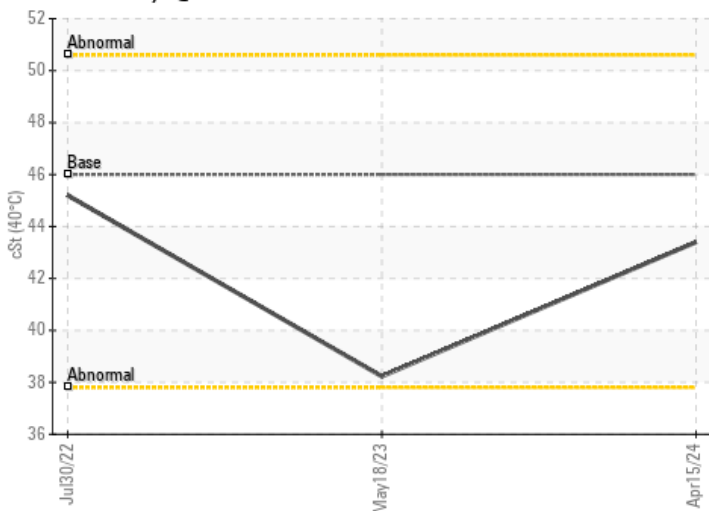
Ferrous Alloys



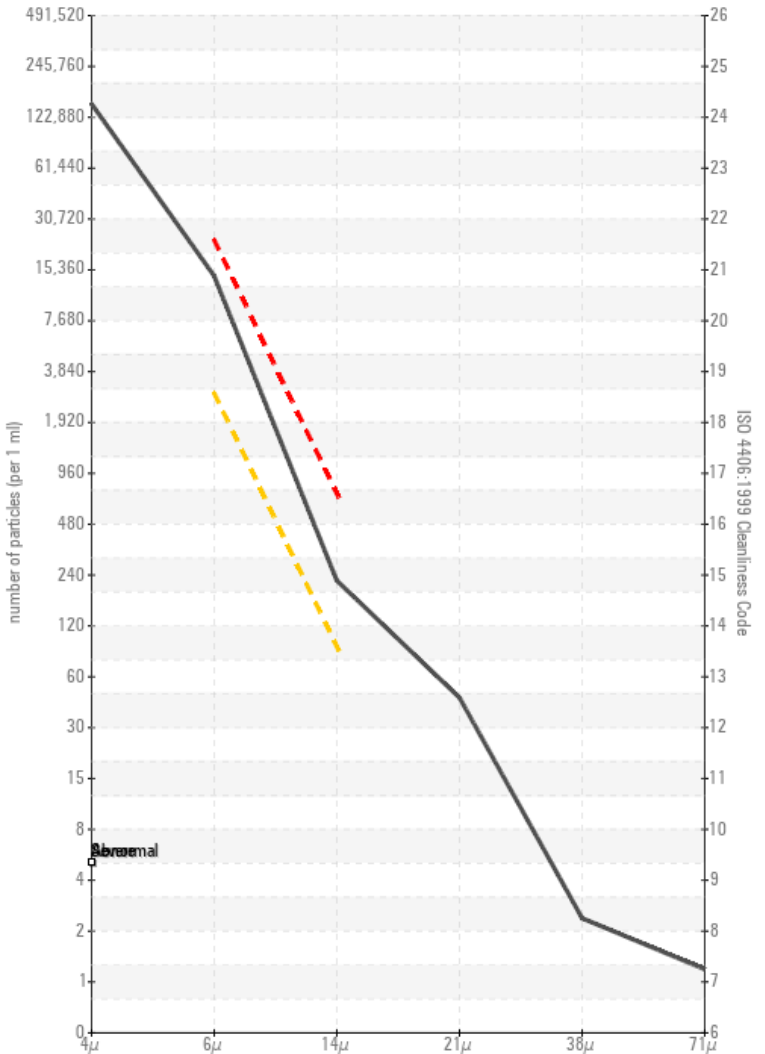
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

