



CONSTRUCTION EQUIPMENT

VOLVO L150F 14205 - HYDRAULIC SYSTEM



Sample No: VCP416703
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP416703 | VCP312537 | VCP385214 | VCP359615 |
| Sample Date | 07 Feb 2024 | 24 Oct 2023 | 09 Aug 2023 | 23 Aug 2022 |
| Machine Hours | 25574 | 25033 | 24538 | 23260 |
| Oil Hours | 2115 | 1574 | 1079 | 2084 |
| Oil Changed | Changed | Not Changd | Not Changd | Changed |
| Sample Status | ATTENTION | ABNORMAL | ABNORMAL | ABNORMAL |

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 40°C | cSt | 39.6 | 39.5 | 40.2 | 40.4 |
| Acid Number (AN) | mg KOH/g | 1.11 | 0.71 | 1.04 | 1.06 |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | ▲ 9425 | ▲ 128291 | ▲ 35224 | ▲ 135054 |
| Particles >6µm | | ■ 647 | ▲ 40513 | ▲ 6693 | ▲ 50987 |
| Particles >14µm | | ■ 21 | ▲ 739 | ■ 153 | ▲ 2284 |
| ISO 4406:1999 (c) | | 20/17/12 | 24/23/17 | 22/20/14 | 24/23/18 |
| Silicon | ppm | ■ 13 | ■ 17 | ■ 11 | ■ 11 |
| Sodium | ppm | ■ 4 | ■ 2 | ■ 2 | ■ 5 |
| Potassium | ppm | ■ 0 | ■ <1 | ■ 0 | ■ 0 |

Diagnosis

No corrective action is recommended at this time. Oil and 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 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 | ■ 2 | ■ 3 | ■ 4 | ■ 5 |
| Copper | ppm | ■ 2 | ■ 1 | ■ 2 | ■ <1 |
| Lead | ppm | ■ <1 | ■ <1 | ■ <1 | ■ <1 |
| Tin | ppm | ■ 0 | ■ <1 | ■ <1 | ■ <1 |
| Aluminum | ppm | ■ 2 | ■ 2 | ■ 2 | ■ 3 |
| Chromium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Molybdenum | ppm | ■ 2 | ■ 2 | ■ 2 | ■ 1 |
| Nickel | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Titanium | ppm | <1 | <1 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | ■ <1 | ■ <1 | ■ <1 | ■ <1 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|--------|--------|
| Calcium | ppm | ■ 2973 | ■ 3158 | ■ 2918 | ■ 2496 |
| Magnesium | ppm | ■ 19 | ■ 28 | ■ 26 | ■ 21 |
| Zinc | ppm | ■ 897 | ■ 1056 | ■ 988 | ■ 924 |
| Phosphorus | ppm | ■ 817 | ■ 878 | ■ 805 | ■ 876 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 1 | ■ 2 | ■ <1 | ■ 4 |

Depot: SCHGRE
Unique No: 10898309
Signed: Don Baldrige
Report Date: 27 Feb 2024

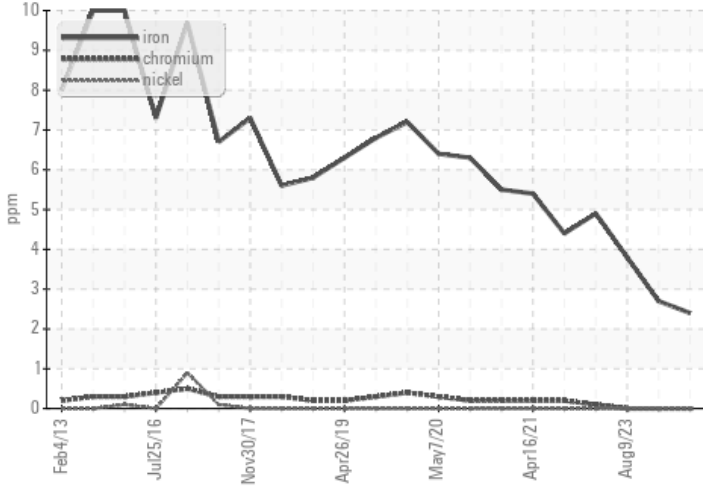


CONSTRUCTION EQUIPMENT

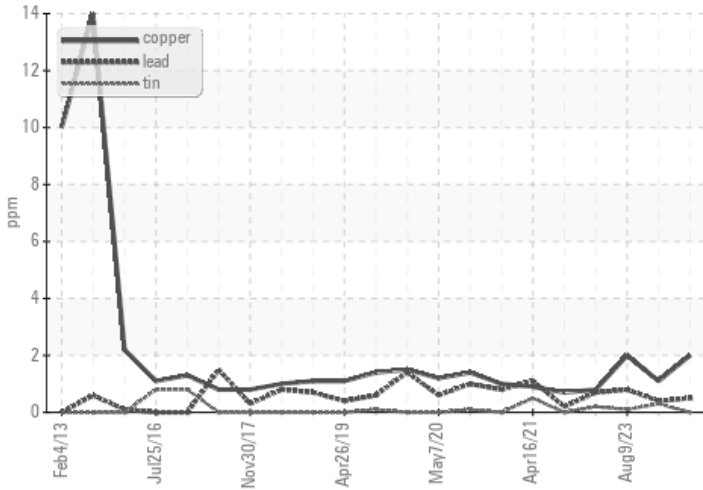


GRAPHS

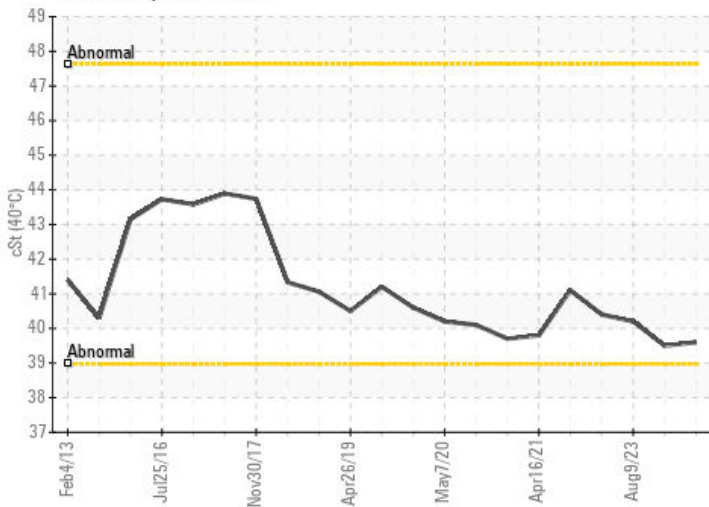
Ferrous Alloys



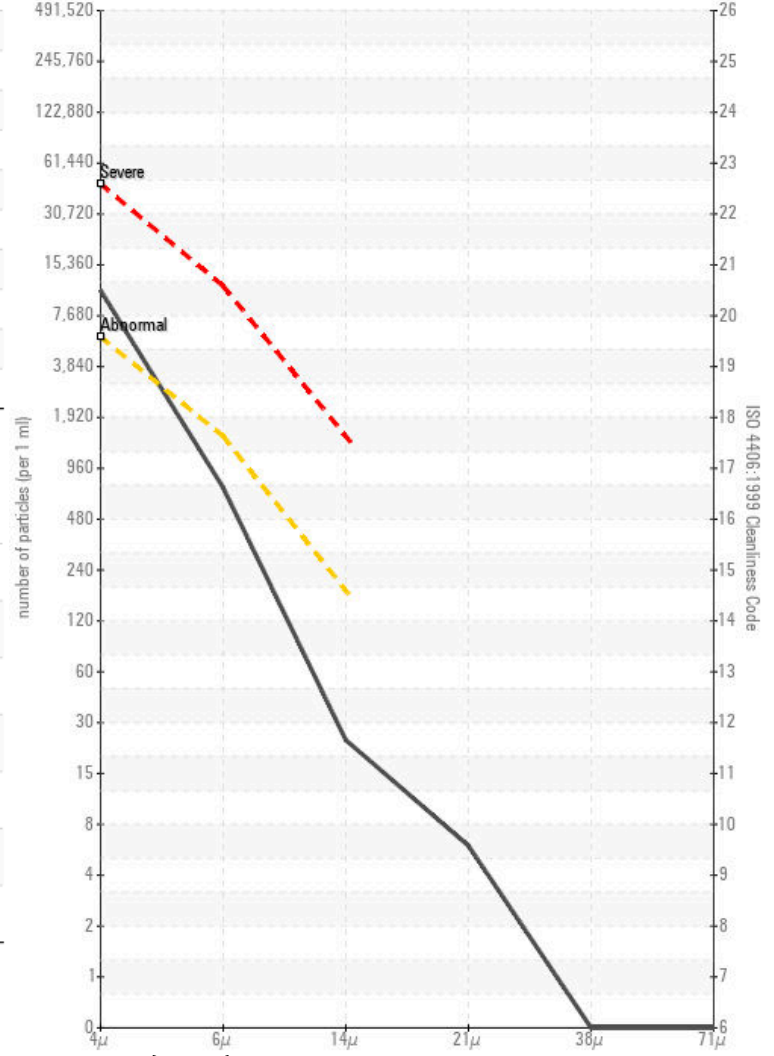
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

