



CONSTRUCTION EQUIPMENT

346223 VOLVO EC350EL 314414 - HYDRAULIC SYSTEM



Sample No: VCP432615
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 346223



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP432615 | VCP405615 | VCP376099 | --- |
| Sample Date | 12 Sep 2023 | 02 Mar 2023 | 29 Sep 2022 | --- |
| Machine Hours | 2031 | 1112 | 660 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Not Changd | Not Changd | --- |
| Sample Status | ABNORMAL | NORMAL | NORMAL | --- |

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|-------|------|-----|
| Visc @ 40°C | cSt | 42.7 | 42.8 | 43.5 | --- |
| Acid Number (AN) | mg KOH/g | 0.71 | 1.167 | 0.72 | --- |

T:
F:



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|-----|
| Particles >4µm | | 99288 | 22615 | 30894 | --- |
| Particles >6µm | | 8066 | 848 | 1747 | --- |
| Particles >14µm | | 78 | 18 | 54 | --- |
| ISO 4406:1999 (c) | | 24/20/13 | 22/17/11 | 22/18/13 | --- |
| Silicon | ppm | 7 | 4 | 4 | --- |
| Sodium | ppm | 2 | 2 | 2 | --- |
| Potassium | ppm | <1 | 0 | <1 | --- |

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 high 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 | 8 | 6 | 5 | --- |
| Copper | ppm | 24 | 18 | 16 | --- |
| Lead | ppm | <1 | <1 | <1 | --- |
| Tin | ppm | <1 | 0 | <1 | --- |
| Aluminum | ppm | 2 | 1 | 1 | --- |
| Chromium | ppm | 2 | <1 | <1 | --- |
| Molybdenum | ppm | 4 | 4 | 3 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | 4 | 4 | 4 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | <1 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|-----|-----|-----|
| Calcium | ppm | 1403 | 932 | 962 | --- |
| Magnesium | ppm | 66 | 56 | 53 | --- |
| Zinc | ppm | 863 | 713 | 717 | --- |
| Phosphorus | ppm | 665 | 567 | 591 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 45 | 31 | 31 | --- |

Depot: CALEAS
Unique No: 10647279
Signed: Don Baldrige
Report Date: 19 Sep 2023

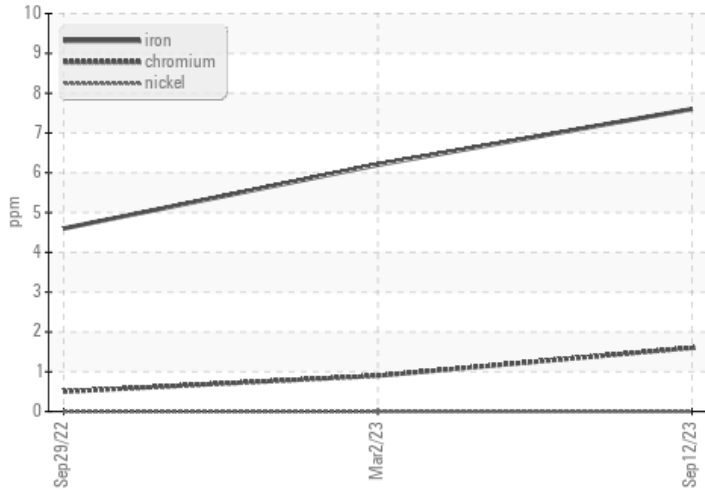


CONSTRUCTION EQUIPMENT

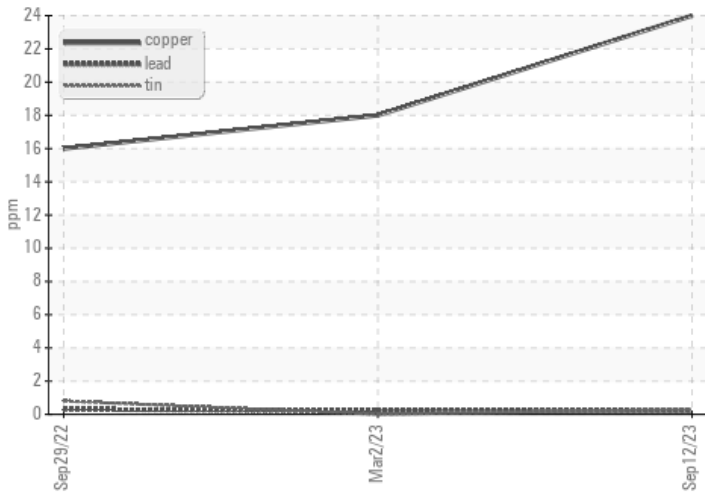


VOLVO GRAPHS

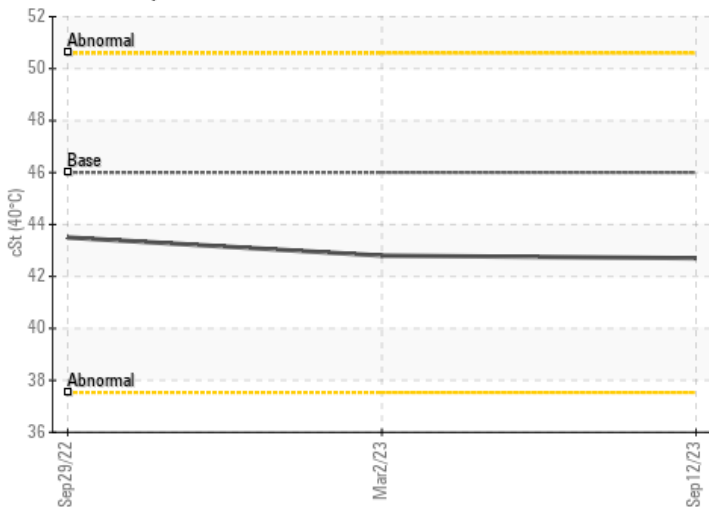
Ferrous Alloys



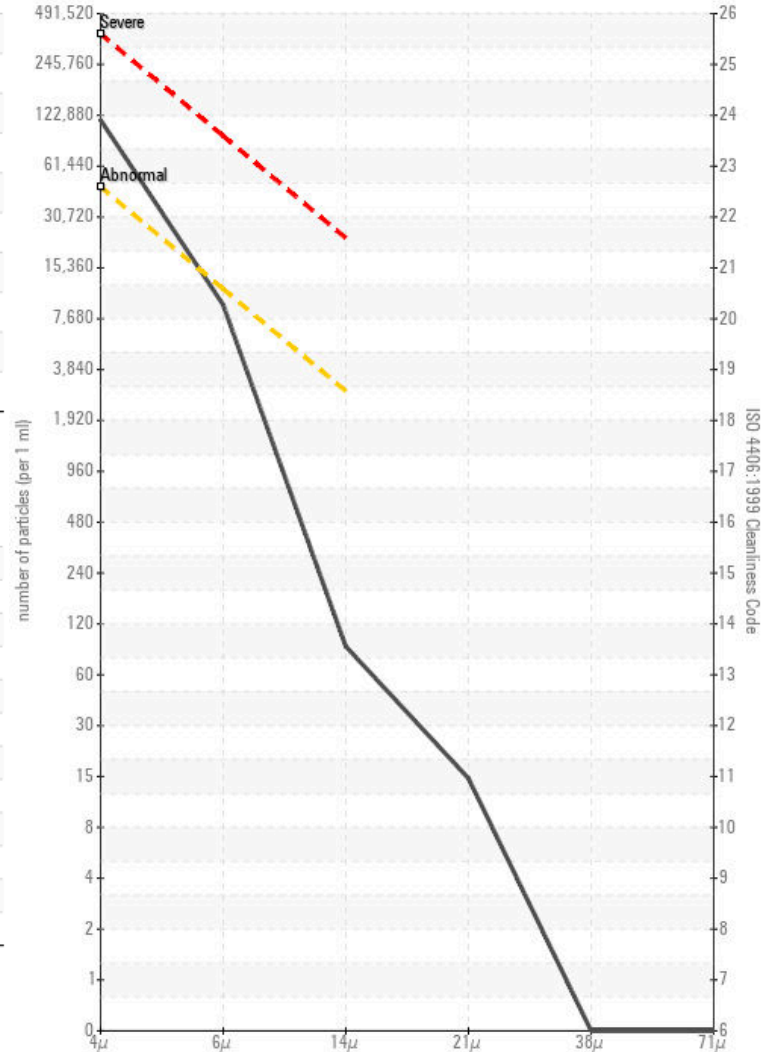
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

