



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 314172 - HYDRAULIC SYSTEM



Sample No: VCP437124
Oil Type: VALVOLINE ALLFLEET 10W
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP437124 | VCP416399 | --- | --- |
| Sample Date | 23 Jan 2024 | 02 Oct 2023 | --- | --- |
| Machine Hours | 0 | 2232 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

CITY CARTING
 221 OLD GATE LN
 MILFORD, CT
 US 06460
 Contact: TAVINS BANKS
 tavins@citycart.net
 T: (203)223-3885
 F:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 41.7 | 41.6 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.38 | 0.56 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Particles >4µm | | 10939 | 2534 | --- | --- |
| Particles >6µm | | 2922 | 691 | --- | --- |
| Particles >14µm | | 178 | 48 | --- | --- |
| ISO 4406:1999 (c) | | 21/19/15 | 19/17/13 | --- | --- |
| Silicon | ppm | 4 | 3 | --- | --- |
| Sodium | ppm | 2 | 1 | --- | --- |
| Potassium | ppm | 0 | 0 | --- | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 3 | 1 | --- | --- |
| Copper | ppm | 9 | 12 | --- | --- |
| Lead | ppm | <1 | 0 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | <1 | 0 | --- | --- |
| Chromium | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | 6 | 0 | --- | --- |
| Nickel | ppm | 0 | 0 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | <1 | <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 782 | 91 | --- | --- |
| Magnesium | ppm | 67 | 2 | --- | --- |
| Zinc | ppm | 675 | 570 | --- | --- |
| Phosphorus | ppm | 585 | 451 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 8 | 0 | --- | --- |

Depot: CITMILCON
Unique No: 10857747
Signed: Don Baldrige
Report Date: 01 Feb 2024

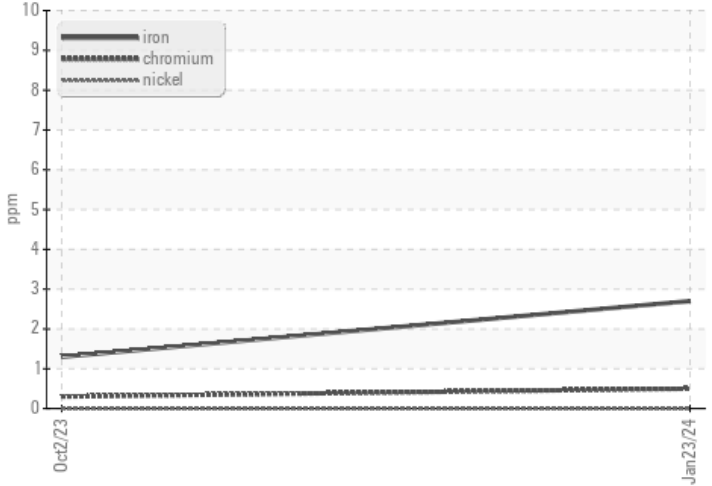


CONSTRUCTION EQUIPMENT

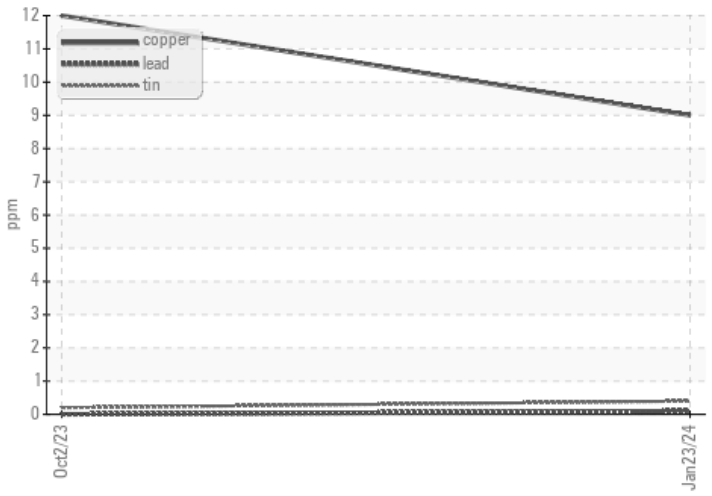


GRAPHS

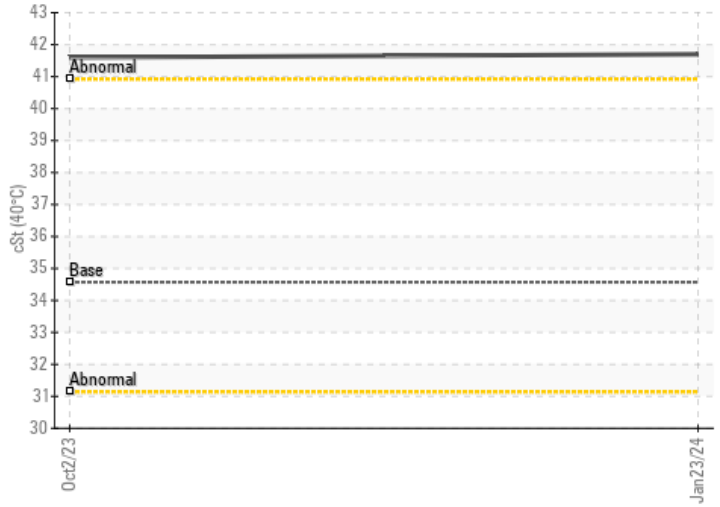
Ferrous Alloys



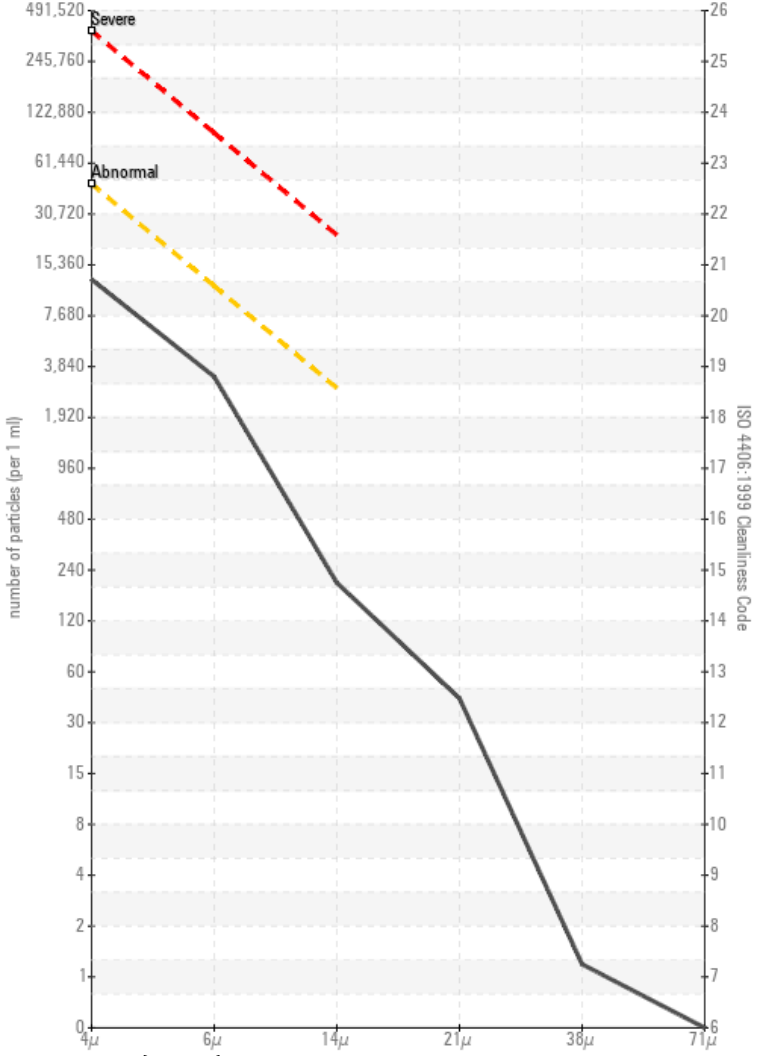
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

