



CONSTRUCTION EQUIPMENT

VOLVO EC350EL 314548 - HYDRAULIC SYSTEM



Sample No: VCP450520
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP450520 | VCP441349 | --- | --- |
| Sample Date | 24 Jun 2024 | 01 Feb 2024 | --- | --- |
| Machine Hours | 1935 | 1088 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | N/A | --- | --- |
| Sample Status | ABNORMAL | ABNORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|------|------|-----|-----|
| Visc @ 40°C | cSt | 41.2 | 42.2 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.50 | 0.43 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|-----|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Particles >4µm | | 26968 | --- | --- | --- |
| Particles >6µm | | 3705 | --- | --- | --- |
| Particles >14µm | | 141 | --- | --- | --- |
| ISO 4406:1999 (c) | | 22/19/14 | --- | --- | --- |
| Silicon | ppm | 4 | 4 | --- | --- |
| Sodium | ppm | 1 | <1 | --- | --- |
| Potassium | ppm | 2 | 2 | --- | --- |

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

| | | | | | |
|------------|-----|----|----|-----|-----|
| Iron | ppm | <1 | 2 | --- | --- |
| Copper | ppm | 37 | 26 | --- | --- |
| Lead | ppm | 0 | <1 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | 0 | <1 | --- | --- |
| Chromium | ppm | 0 | 0 | --- | --- |
| Molybdenum | ppm | 0 | 0 | --- | --- |
| Nickel | ppm | 0 | 0 | --- | --- |
| Titanium | ppm | 0 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | <1 | <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 78 | 92 | --- | --- |
| Magnesium | ppm | <1 | 0 | --- | --- |
| Zinc | ppm | 543 | 537 | --- | --- |
| Phosphorus | ppm | 427 | 402 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 0 | 0 | --- | --- |

Depot: VOLVO0090
Unique No: 11099325
Signed: Wes Davis
Report Date: 27 Jun 2024

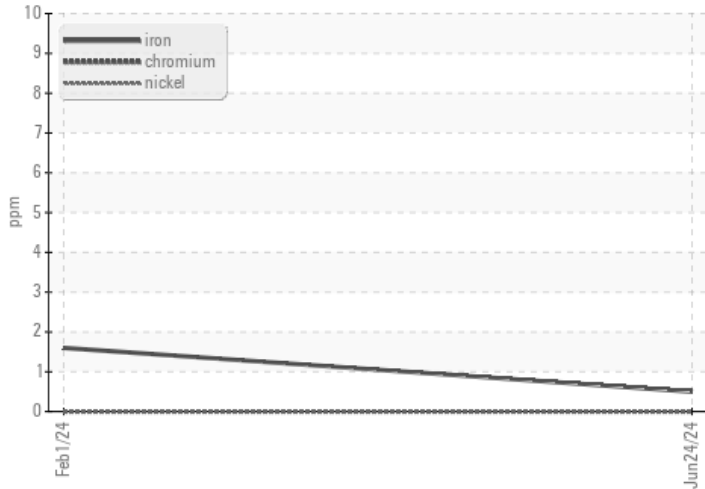


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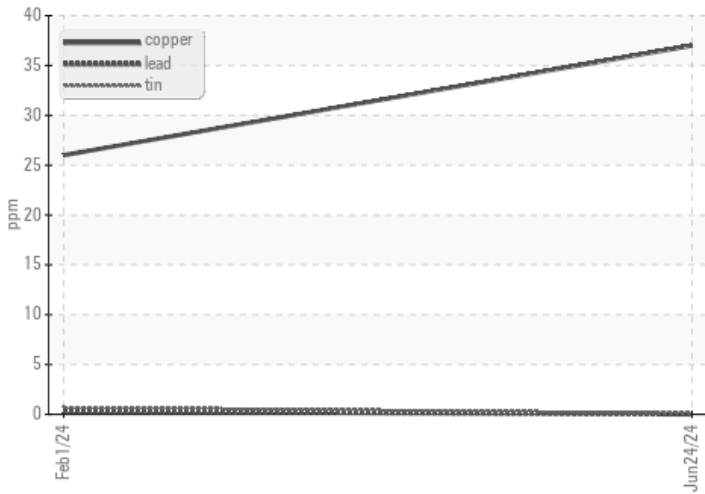


GRAPHS

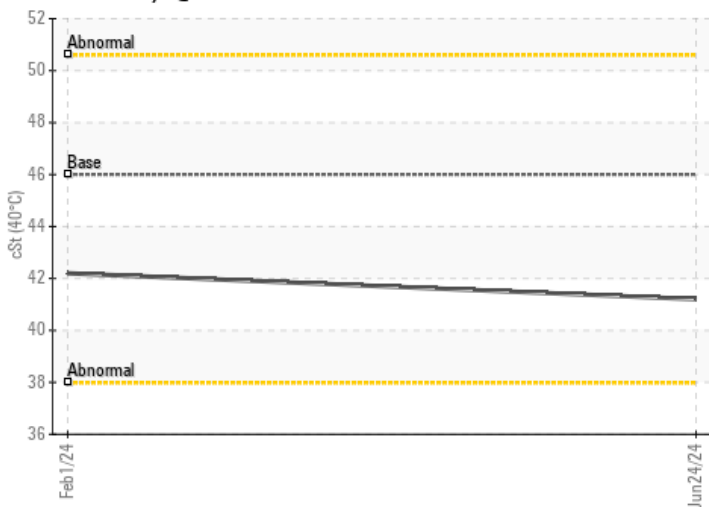
Ferrous Alloys



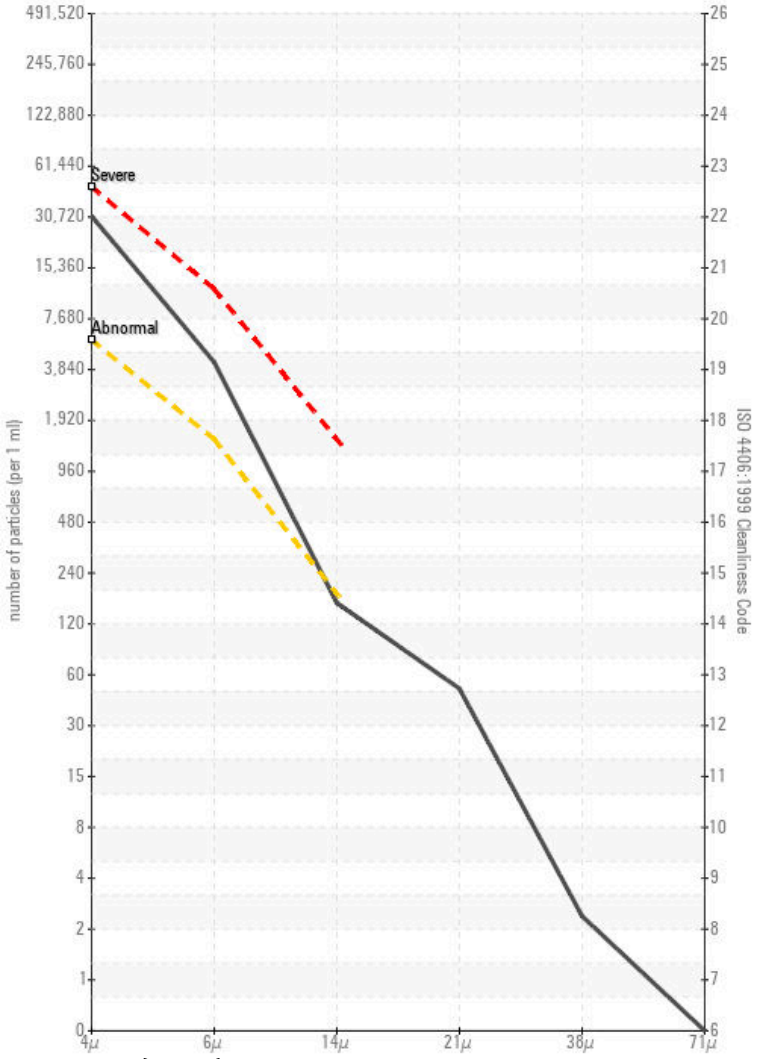
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

