



CONSTRUCTION EQUIPMENT

456125-30 VOLVO A45G 342711 - HYDRAULIC SYSTEM



Sample No: VCP450978
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 456125-30



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP450978 | VCP355632 | --- | --- |
| Sample Date | 13 May 2024 | 22 Mar 2022 | --- | --- |
| Machine Hours | 6298 | 3643 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Chngd | --- | --- |
| Sample Status | ATTENTION | ATTENTION | --- | --- |

ALTA EQUIPMENT COMPANY
 5210 REESE ROAD
 DAVIE, FL
 US 33314
 Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 39.5 | 40.0 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.38 | 0.37 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Particles >4µm | | 9379 | 3970 | --- | --- |
| Particles >6µm | | 1708 | 1415 | --- | --- |
| Particles >14µm | | 74 | 171 | --- | --- |
| ISO 4406:1999 (c) | | 20/18/13 | 19/18/15 | --- | --- |
| Silicon | ppm | 10 | 7 | --- | --- |
| Sodium | ppm | 3 | <1 | --- | --- |
| Potassium | ppm | 2 | 1 | --- | --- |

Diagnosis

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 light 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 | 19 | 11 | --- | --- |
| Copper | ppm | 5 | 4 | --- | --- |
| Lead | ppm | 4 | 3 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | 3 | 0 | --- | --- |
| Chromium | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | <1 | <1 | --- | --- |
| Nickel | ppm | <1 | 0 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | <1 | <1 | --- | --- |
| Manganese | ppm | 0 | 0 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 116 | 81 | --- | --- |
| Magnesium | ppm | 4 | 2 | --- | --- |
| Zinc | ppm | 444 | 463 | --- | --- |
| Phosphorus | ppm | 352 | 347 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 0 | <1 | --- | --- |

Depot: VOLVO0095
Unique No: 11031425
Signed: Wes Davis
Report Date: 16 May 2024

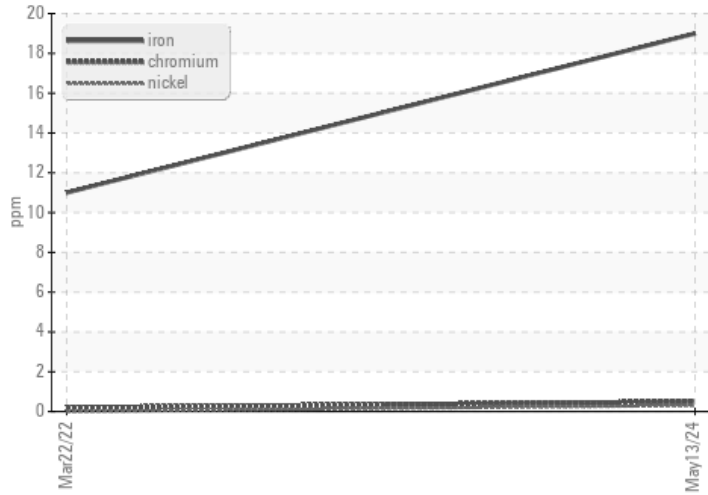


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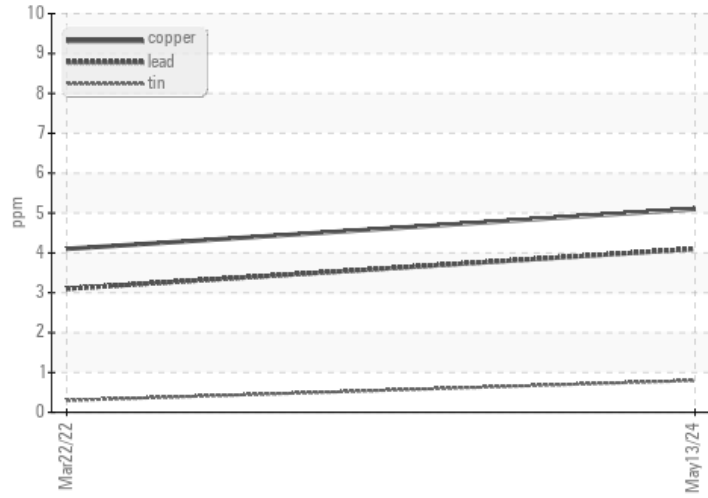


GRAPHS

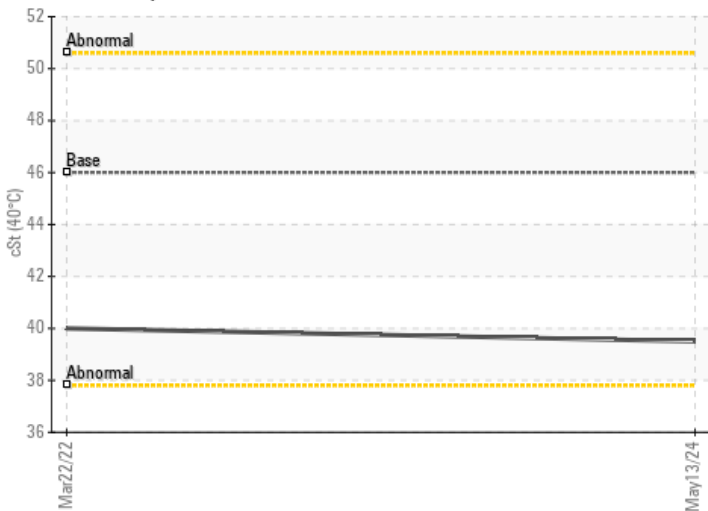
Ferrous Alloys



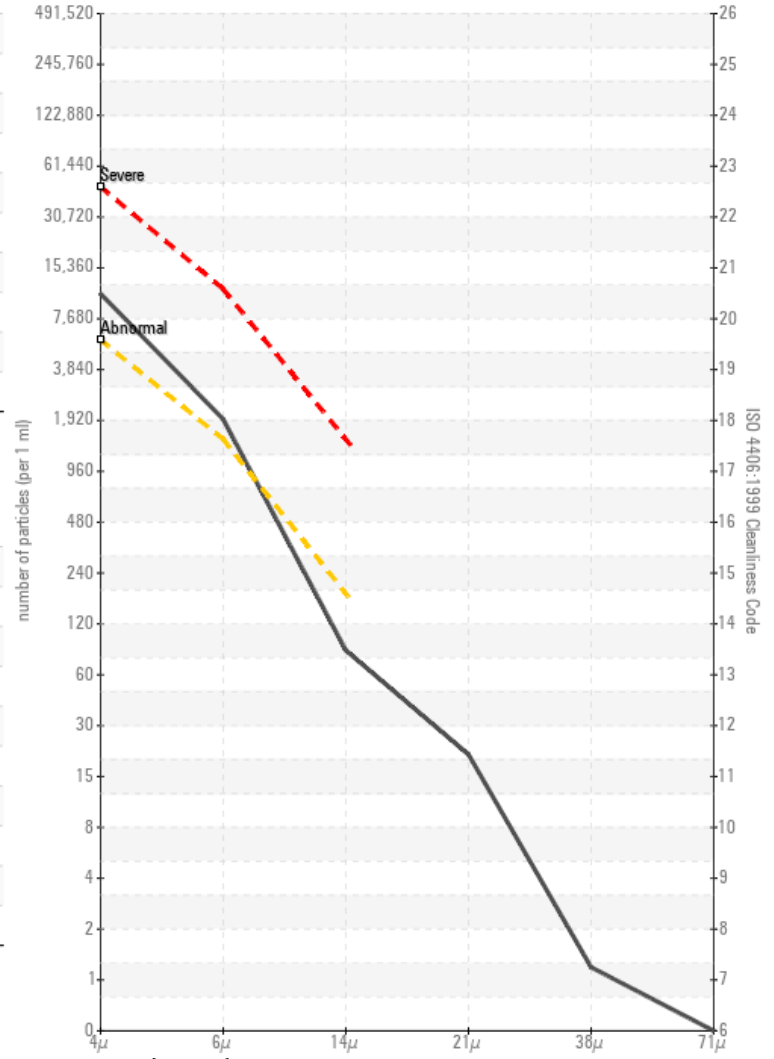
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

