



CONSTRUCTION EQUIPMENT

SWA452192-2 VOLVO L30GS 3220275 - HYDRAULIC SYSTEM



Sample No: VCP441330
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA452192-2



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP441330 | VCP386710 | --- | --- |
| Sample Date | 10 Jan 2024 | 31 Oct 2022 | --- | --- |
| Machine Hours | 0 | 5081 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | ABNORMAL | SEVERE | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 40°C | cSt | █ 45.4 | █ 43.9 | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.42 | █ 0.29 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|--------|-----|-----|
| Water | % | NEG | ● 1.27 | --- | --- |
| Particles >4µm | | ▲ 15007 | --- | --- | --- |
| Particles >6µm | | ▲ 3262 | --- | --- | --- |
| Particles >14µm | | ▲ 331 | --- | --- | --- |
| ISO 4406:1999 (c) | | 21/19/16 | --- | --- | --- |
| Silicon | ppm | █ <1 | █ 2 | --- | --- |
| Sodium | ppm | █ 0 | █ 2 | --- | --- |
| Potassium | ppm | █ 0 | █ 2 | --- | --- |

Diagnosis

The oil 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 particulates (2 to 100 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 | █ 3 | █ 36 | --- | --- |
| Copper | ppm | █ <1 | █ 8 | --- | --- |
| Lead | ppm | █ 0 | █ 4 | --- | --- |
| Tin | ppm | █ 0 | █ <1 | --- | --- |
| Aluminum | ppm | █ 0 | █ 4 | --- | --- |
| Chromium | ppm | █ 0 | █ 1 | --- | --- |
| Molybdenum | ppm | █ <1 | █ 2 | --- | --- |
| Nickel | ppm | █ 0 | █ <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | █ 0 | █ <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-------|-----|-----|
| Calcium | ppm | █ 92 | █ 52 | --- | --- |
| Magnesium | ppm | █ 2 | █ 3 | --- | --- |
| Zinc | ppm | █ 435 | █ 358 | --- | --- |
| Phosphorus | ppm | █ 354 | █ 347 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ <1 | █ 2 | --- | --- |

Depot: VOLVO0090
Unique No: 10830633
Signed: Wes Davis
Report Date: 15 Jan 2024

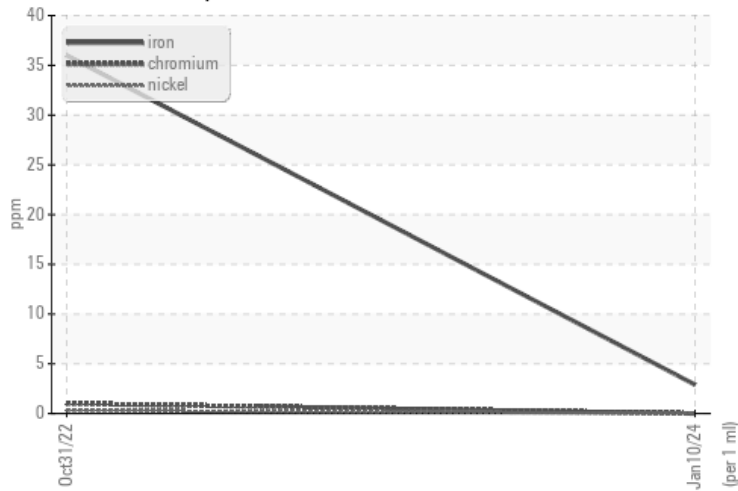


CONSTRUCTION EQUIPMENT

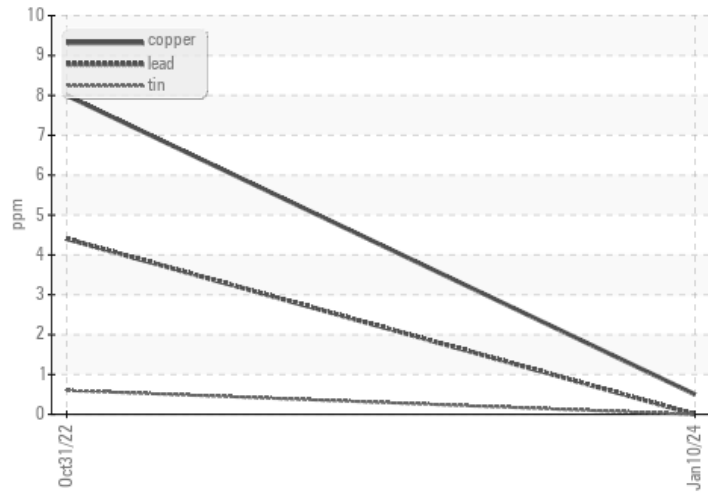


GRAPHS

Ferrous Alloys



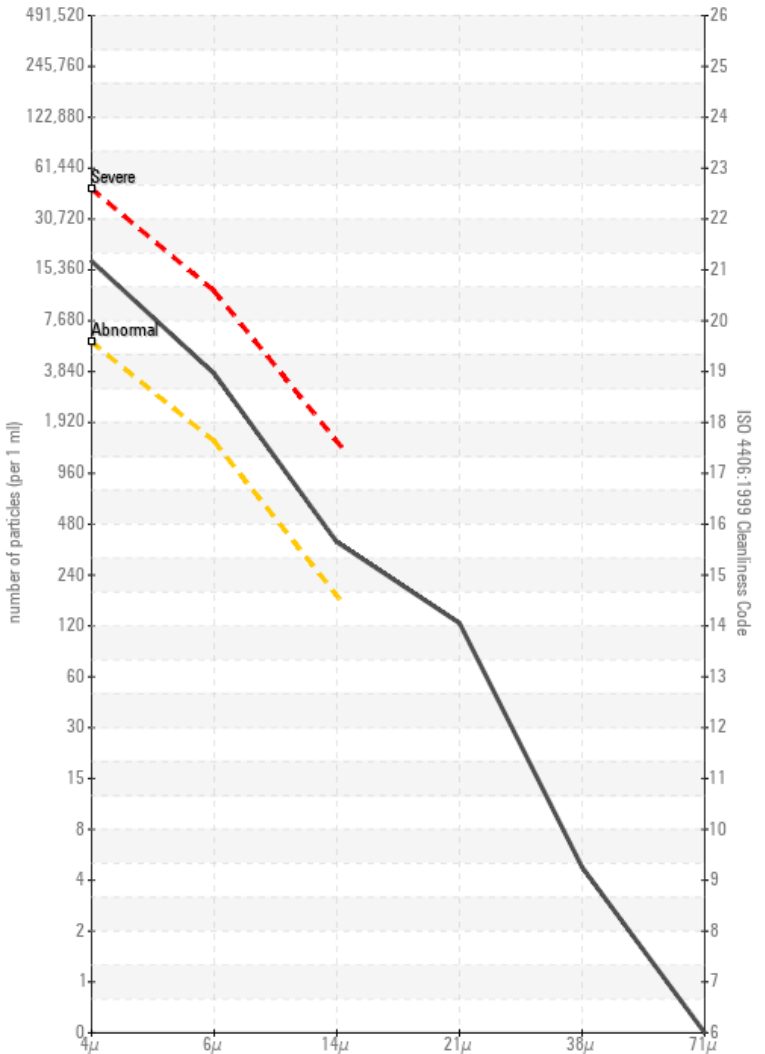
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

