



CONSTRUCTION EQUIPMENT

TOLKO-LARINGTON WO1005016 1194 - HYDRAULIC SYSTEM



Sample No: VCP184440
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: WO1005016



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP184440 | --- | --- | --- |
| Sample Date | 13 Dec 2023 | --- | --- | --- |
| Machine Hours | 4239 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

GREAT WEST EQUIPMENT

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 VERNON, BC
 CA V1T 8T2
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OIL CONDITION

| | | | | | |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ▲ 21.2 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Particles >4µm | | ▲ 105067 | --- | --- | --- |
| Particles >6µm | | ▲ 5541 | --- | --- | --- |
| Particles >14µm | | ▲ 190 | --- | --- | --- |
| ISO 4406:1999 (c) | | 24/20/15 | --- | --- | --- |
| Silicon | ppm | ■ 4 | --- | --- | --- |
| Sodium | ppm | ■ 2 | --- | --- | --- |
| Potassium | ppm | ■ 5 | --- | --- | --- |

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. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ■ 21 | --- | --- | --- |
| Copper | ppm | ■ 1 | --- | --- | --- |
| Lead | ppm | ■ 1 | --- | --- | --- |
| Tin | ppm | ■ 0 | --- | --- | --- |
| Aluminum | ppm | ■ <1 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 0 | --- | --- | --- |
| Nickel | ppm | ■ 2 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | ■ 0 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Calcium | ppm | ■ 111 | --- | --- | --- |
| Magnesium | ppm | ■ 1 | --- | --- | --- |
| Zinc | ppm | ■ 438 | --- | --- | --- |
| Phosphorus | ppm | ■ 377 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 2 | --- | --- | --- |

Depot: MARVER
Unique No: 5697514
Signed: Kevin Marson
Report Date: 21 Dec 2023

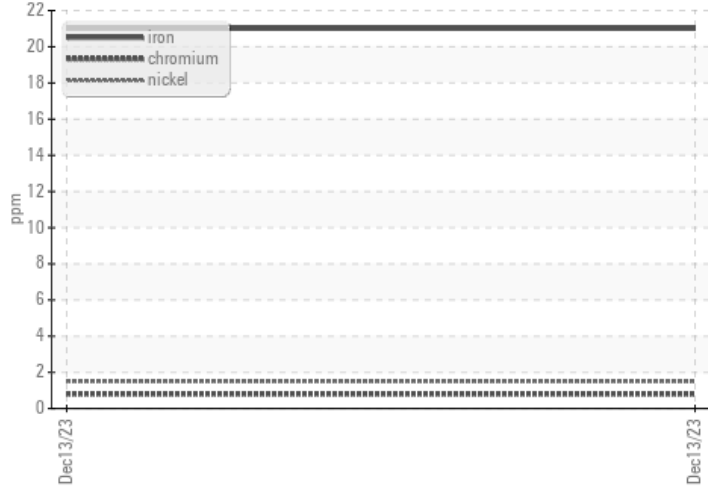


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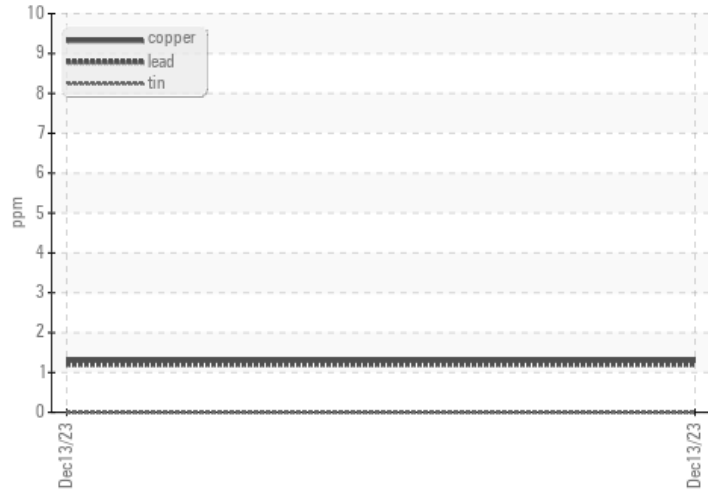


GRAPHS

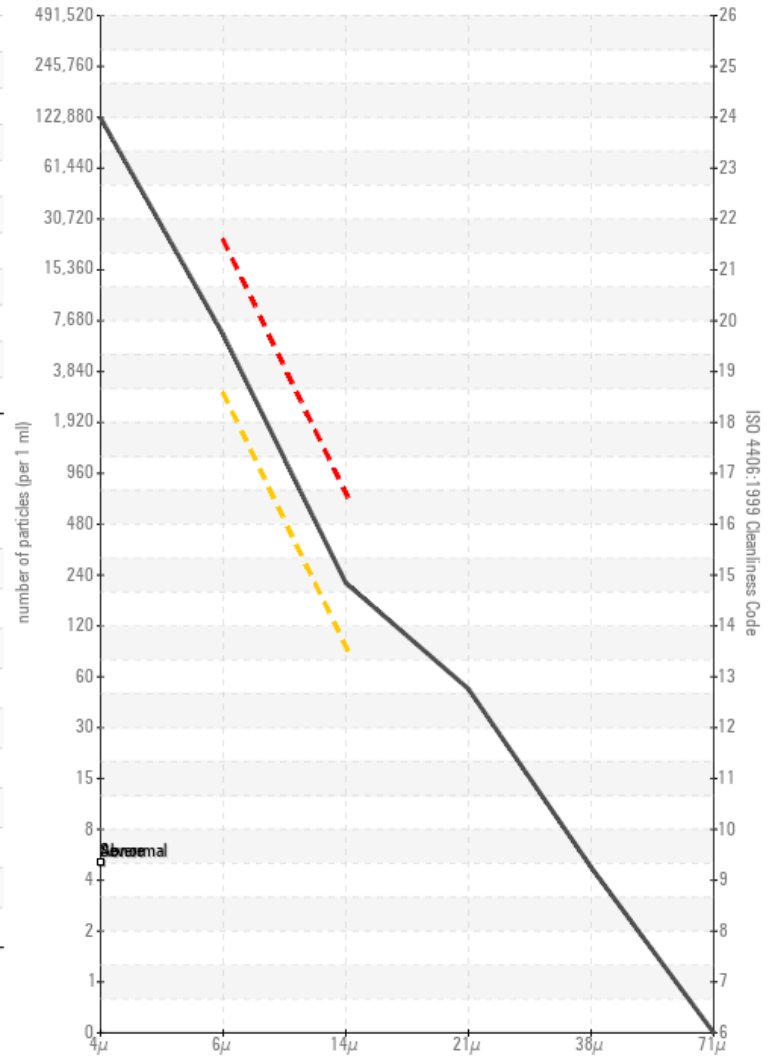
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C

