

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068511-1761 - Hydraulic System

Sample No: LH0281365

Oil Type: {unknown}



SAMPLE INFORMATION

| Sample Number | LH0281365 | LH0274787 | LH0261757 | LH0261352 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 21 Jan 2024 | 29 Aug 2023 | 13 Jul 2023 | 24 May 2023 |
| Machine Hours | 2595 | 1877 | 1492 | 1041 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | N/A | Not Changd | Not Changd | Not Changd |
| Sample Status | ABNORMAL | ATTENTION | SEVERE | NORMAL |

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OIL CONDITION

| Visc @ 40°C | cSt | 46.7 | 43.6 | 42.1 | 44.3 |
|-------------|-----|------|------|------|------|
| | | ● | ● | ● | ● |



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-------------------|-----|----------|----------|----------|----------|
| Particles >4µm | | ● 68088 | ● 30297 | ● 122426 | ● 16378 |
| Particles >6µm | | ● 20599 | ● 4600 | ● 68879 | ● 946 |
| Particles >14µm | | ● 1018 | ● 326 | ● 6430 | ● 7 |
| ISO 4406:1999 (c) | | 23/22/17 | 22/19/16 | 24/23/20 | 21/17/10 |
| Silicon | ppm | ● <1 | ● 10 | ● 9 | ● 7 |
| Sodium | ppm | ● 0 | ● 2 | ● 2 | ● 2 |
| Potassium | ppm | ● 1 | ● 2 | ● 2 | ● 1 |



WEAR METALS

| | | | | | |
|------------|-----|------|------|------|------|
| Iron | ppm | ● <1 | ● 15 | ● 13 | ● 8 |
| Copper | ppm | ● 0 | ● 3 | ● 3 | ● 2 |
| Lead | ppm | ● 0 | ● 8 | ● 7 | ● 4 |
| Tin | ppm | ● 0 | ● <1 | ● <1 | ● <1 |
| Aluminum | ppm | ● <1 | ● 3 | ● 3 | ● 2 |
| Chromium | ppm | ● 0 | ● <1 | ● <1 | ● <1 |
| Molybdenum | ppm | ● 0 | ● 0 | ● 0 | ● 0 |
| Nickel | ppm | ● 0 | ● <1 | ● <1 | ● 0 |
| Titanium | ppm | ● 0 | ● <1 | ● <1 | ● <1 |
| Silver | ppm | ● 0 | ● 0 | ● 2 | ● 0 |
| Manganese | ppm | ● 0 | ● <1 | ● <1 | ● <1 |
| Vanadium | ppm | ● 0 | ● 0 | ● 0 | ● 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------|--------|--------|--------|
| Calcium | ppm | ● 103 | ● 1456 | ● 1458 | ● 1486 |
| Magnesium | ppm | ● <1 | ● 6 | ● 6 | ● 5 |
| Zinc | ppm | ● 828 | ● 724 | ● 727 | ● 699 |
| Phosphorus | ppm | ● 647 | ● 656 | ● 679 | ● 691 |
| Barium | ppm | ● 0 | ● 0 | ● 0 | ● 0 |
| Boron | ppm | ● 0 | ● <1 | ● <1 | ● <1 |

Diagnosis

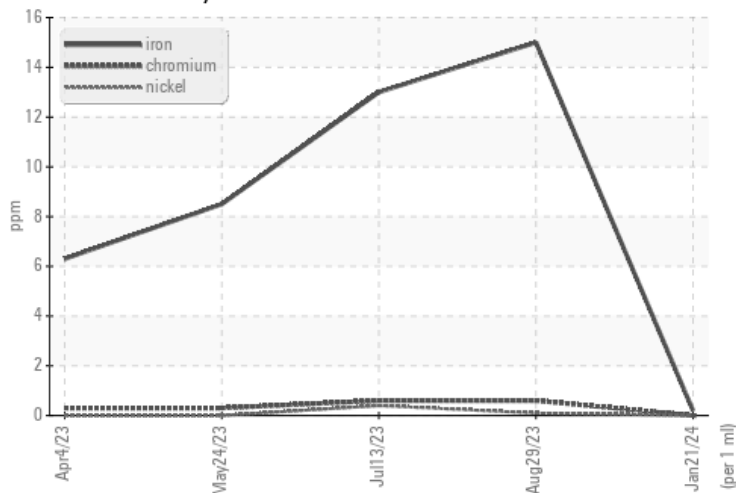
We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: MIL408MAR2
 Unique No: 5711394
 Signed: Wes Davis
 Report Date: 23 Jan 2024

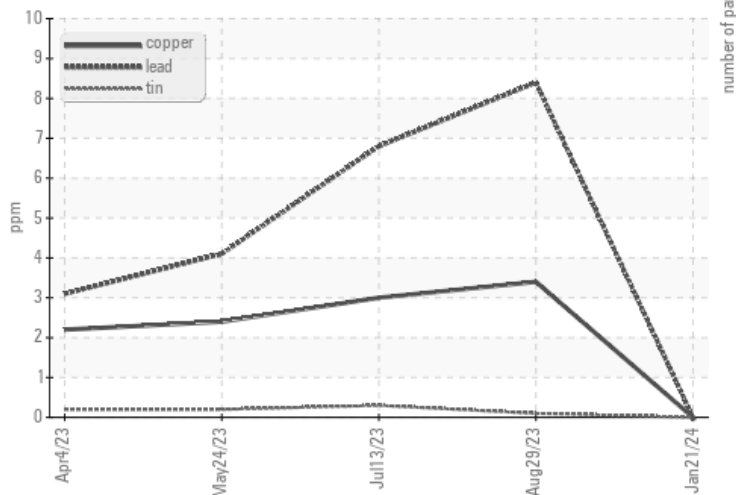


GRAPHS

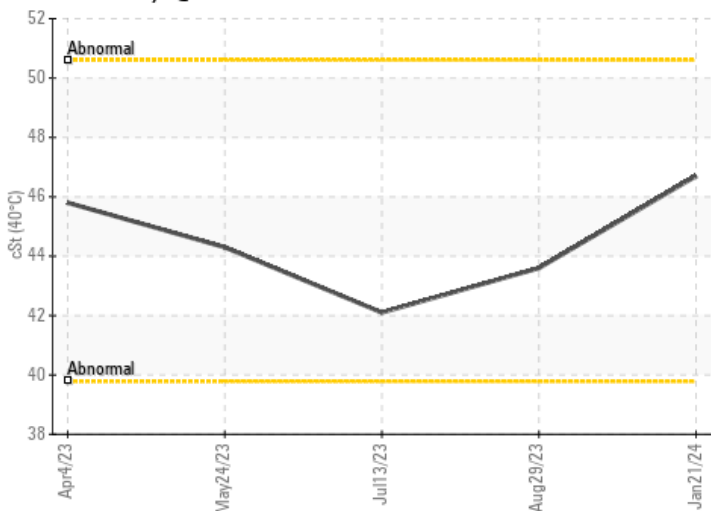
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

