

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 112545-1253 - Hydraulic System

Sample No: LH0289581

Oil Type: {unknown}



Sample Information

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0289581 | LH0274832 | LH | LH0270118 |
| Sample Date | 06 May 2024 | 04 Mar 2024 | 07 Dec 2023 | 27 Sep 2023 |
| Machine Hours | 15168 | 0 | 13530 | 1297 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | N/A | N/A | Not Changd |
| Sample Status | ABNORMAL | NORMAL | NORMAL | MARGINAL |

GREEN METALS CANADA

224 BEARDS LANE
WOODSTOCK, ON
CA N4S 7W3

Contact: Jamie Depotie
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T: (519)539-1313
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Oil Condition

| | | | | | |
|----------------------|-------|------|------|------|------|
| Visc @ 40°C | cSt | 40.5 | 40.9 | 41.4 | 41.2 |
| Visc @ 100°C | cSt | --- | --- | --- | 7.7 |
| Viscosity Index (VI) | Scale | --- | --- | --- | 158 |



Contamination

| | | | | | |
|-------------------|-----|----------|----------|----------|----------|
| Water | % | 0.157 | NEG | NEG | NEG |
| Particles >4µm | | 26508 | 5258 | 3429 | 3642 |
| Particles >6µm | | 6599 | 1586 | 891 | 889 |
| Particles >14µm | | 356 | 125 | 42 | 43 |
| ISO 4406:1999 (c) | | 22/20/16 | 20/18/14 | 19/17/13 | 19/17/13 |
| Silicon | ppm | 0 | <1 | <1 | <1 |
| Sodium | ppm | 2 | 2 | 3 | 2 |
| Potassium | ppm | <1 | 1 | 3 | 0 |



Wear Metals

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 25 | 22 | 20 | 20 |
| Copper | ppm | 6 | 6 | 5 | 6 |
| Lead | ppm | 0 | <1 | <1 | <1 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 0 | <1 | <1 | 0 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | 0 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | <1 |
| Manganese | ppm | <1 | 0 | 0 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 290 | 293 | 290 | 310 |
| Magnesium | ppm | 4 | 4 | 3 | 3 |
| Zinc | ppm | 777 | 784 | 792 | 799 |
| Phosphorus | ppm | 606 | 634 | 605 | 627 |
| Barium | ppm | 0 | 0 | <1 | <1 |
| Boron | ppm | <1 | <1 | <1 | <1 |

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. 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. Please note that this is a corrected copy. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: GRE224WOO
Unique No: 5775046
Signed: Kevin Marson
Report Date: 28 May 2024

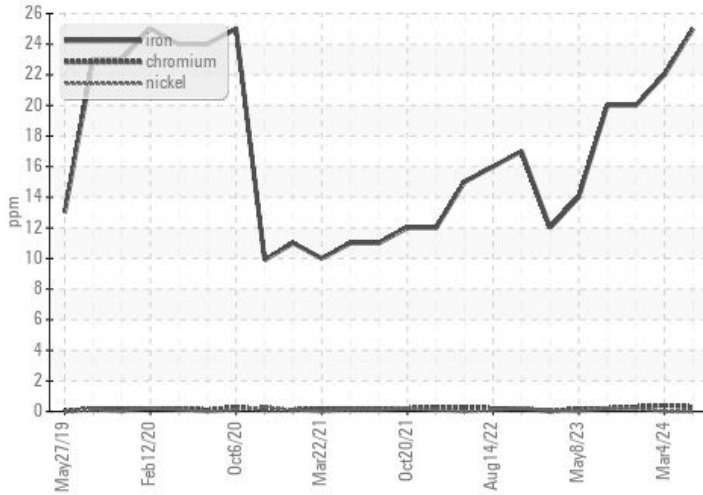
LIEBHERR

CONSTRUCTION EQUIPMENT

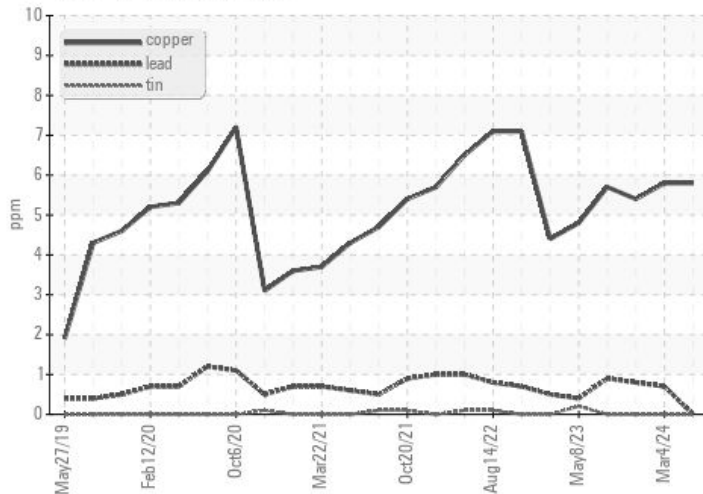


Graphs

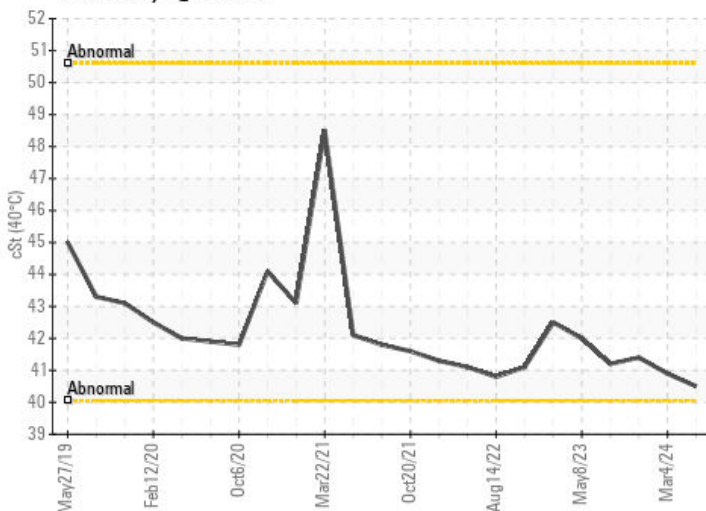
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

