

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 1484-54024 - Front Differential

Sample No: LH0268223

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0268223 | LH0236705 | --- | --- |
| Sample Date | 11 Jan 2024 | 12 Jan 2023 | --- | --- |
| Machine Hours | 6218 | 4080 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | ABNORMAL | NORMAL | --- | --- |

ALTER
4400 SYCAMORE AVE
MADISON, WI
US 53714
Contact: Service Manager



OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | ● 107 | ● 121 | --- | --- |
|-------------|-----|-------|-------|-----|-----|

T:
F:



CONTAMINATION

| | | | | | |
|-----------|-----|---------|------|-----|-----|
| Water | % | ● 0.033 | NEG | --- | --- |
| Silicon | ppm | ● 7 | ● 4 | --- | --- |
| Sodium | ppm | ● 1 | ● <1 | --- | --- |
| Potassium | ppm | ● 0 | ● 0 | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------|-------|-----|-----|
| Iron | ppm | ● 1240 | ● 406 | --- | --- |
| Copper | ppm | ● 42 | ● 44 | --- | --- |
| Lead | ppm | ● 0 | ● <1 | --- | --- |
| Tin | ppm | ● 2 | ● <1 | --- | --- |
| Aluminum | ppm | ● 2 | ● <1 | --- | --- |
| Chromium | ppm | ● 4 | ● 1 | --- | --- |
| Molybdenum | ppm | ● 71 | ● 38 | --- | --- |
| Nickel | ppm | ● <1 | ● <1 | --- | --- |
| Titanium | ppm | 4 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | ● 11 | ● 8 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

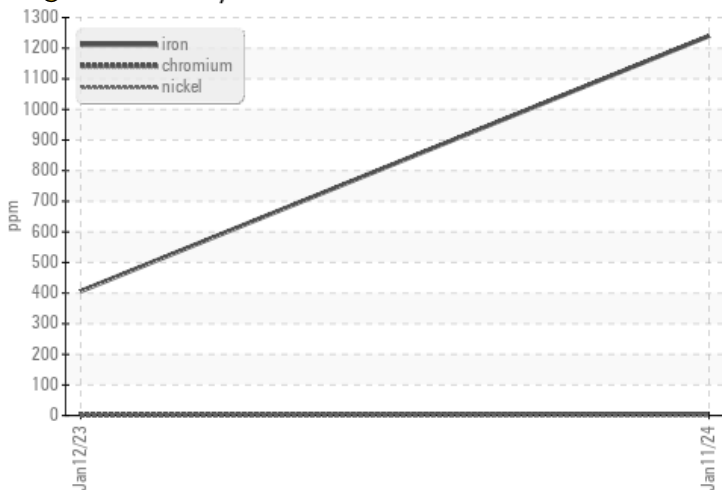
| | | | | | |
|------------|-----|-------|-------|-----|-----|
| Calcium | ppm | ● 138 | ● 136 | --- | --- |
| Magnesium | ppm | ● 56 | ● 46 | --- | --- |
| Zinc | ppm | ● 138 | ● 38 | --- | --- |
| Phosphorus | ppm | ● 741 | ● 991 | --- | --- |
| Barium | ppm | ● <1 | ● 0 | --- | --- |
| Boron | ppm | ● 20 | ● 44 | --- | --- |

Depot: ALTMAD
Unique No: 10844592
Signed: Don Baldrige
Report Date: 24 Jan 2024

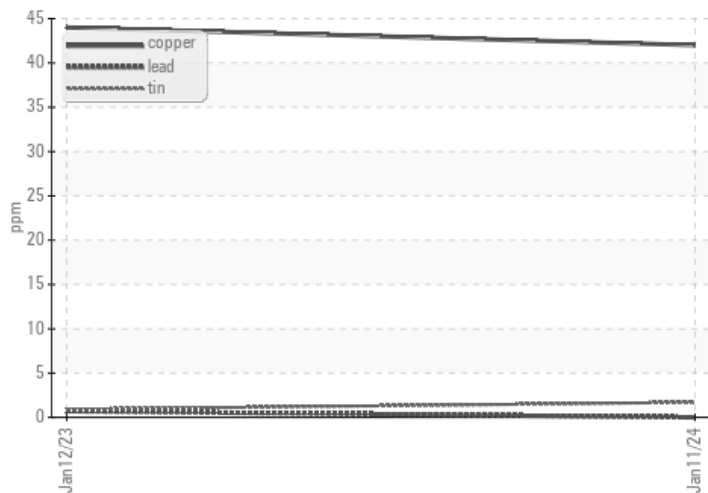


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

