

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1120-4.1 081556 - Right Hub

Sample No: LH0259089

Oil Type: LIEBHERR GEAR HYPOID 90 EP



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0259089 | --- | --- | --- |
| Sample Date | 21 Jan 2024 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: TERENCE VANDERLENDE
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 T:
 F:



OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 126 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

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

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 | ● 115 | --- | --- | --- |
| Copper | ppm | ● 21 | --- | --- | --- |
| Lead | ppm | 0 | --- | --- | --- |
| Tin | ppm | <1 | --- | --- | --- |
| Aluminum | ppm | 1 | --- | --- | --- |
| Chromium | ppm | ● <1 | --- | --- | --- |
| Molybdenum | ppm | ● <1 | --- | --- | --- |
| Nickel | ppm | ● 0 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | ● 4 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

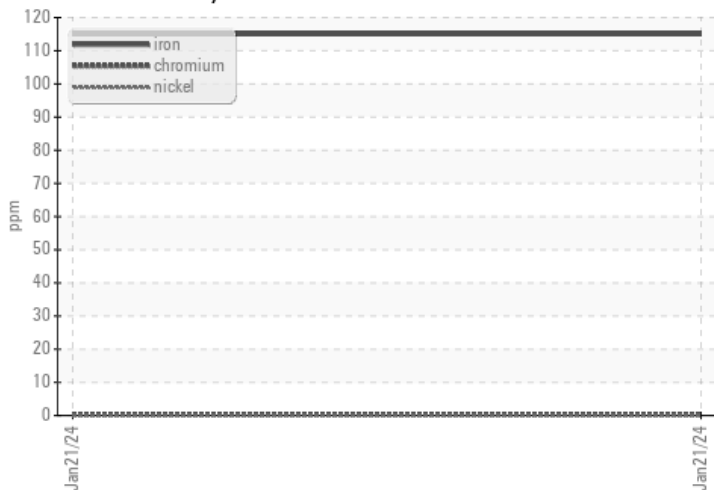
| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ● 110 | --- | --- | --- |
| Magnesium | ppm | ● 615 | --- | --- | --- |
| Zinc | ppm | ● 79 | --- | --- | --- |
| Phosphorus | ppm | ● 1215 | --- | --- | --- |
| Barium | ppm | ● 0 | --- | --- | --- |
| Boron | ppm | ● 364 | --- | --- | --- |

Depot: LIENEW
 Unique No: 10846809
 Signed: Sean Felton
 Report Date: 26 Jan 2024

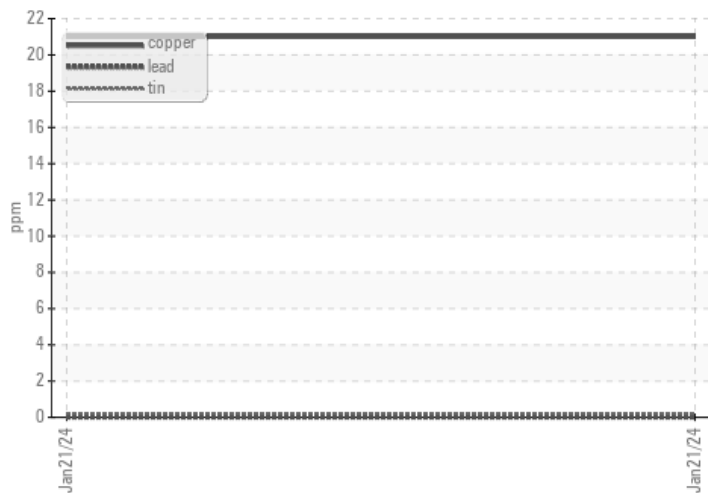


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

