

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 117421-1217 - Rear Differential

Sample No: LH0267288

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | LH0267288 | LH0220142 | LH0229339 | LH0217519 |
| Sample Date | 26 Dec 2023 | 24 Feb 2023 | 13 Jun 2022 | 01 Mar 2022 |
| Machine Hours | 5377 | 3454 | 1958 | 1190 |
| Oil Hours | 0 | 1000 | 500 | 1190 |
| Oil Changed | N/A | Not Changd | Not Changd | Changed |
| Sample Status | ABNORMAL | NORMAL | ABNORMAL | NORMAL |

TT & E IRON

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-------|-------|
| Visc @ 40°C | cSt | ● 134 | ● 139 | ● 145 | ● 146 |
|-------------|-----|-------|-------|-------|-------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|------|-----|-----|-----|
| Silicon | ppm | ● 4 | ● 3 | ● 4 | ● 3 |
| Sodium | ppm | ● 2 | ● 1 | ● 1 | ● 2 |
| Potassium | ppm | ● <1 | ● 1 | ● 2 | ● 2 |

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|------|------|------|------|
| Iron | ppm | ● 24 | ● 18 | ● 4 | ● 8 |
| Copper | ppm | ● 28 | ● 13 | ● 10 | ● 4 |
| Lead | ppm | ● 0 | ● 0 | ● <1 | ● <1 |
| Tin | ppm | ● <1 | ● 0 | ● 0 | ● <1 |
| Aluminum | ppm | ● <1 | ● <1 | ● <1 | ● <1 |
| Chromium | ppm | ● 0 | ● <1 | ● <1 | ● <1 |
| Molybdenum | ppm | ● 0 | ● 1 | ● 1 | ● 1 |
| Nickel | ppm | ● 0 | ● 0 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 1 |
| Manganese | ppm | ● 1 | ● <1 | ● <1 | ● <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

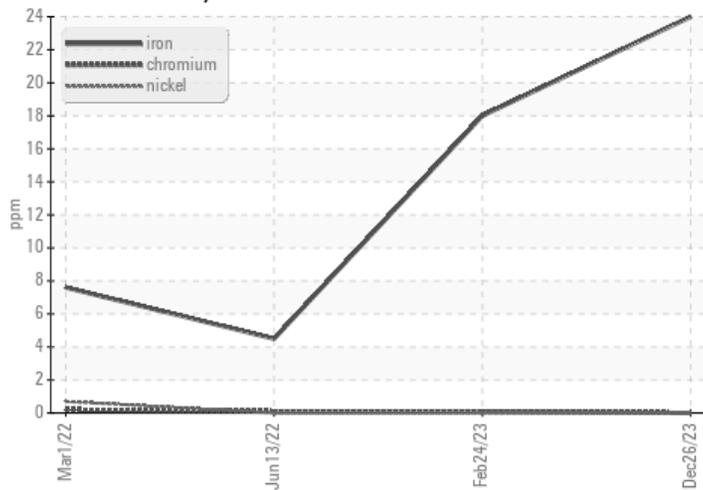
| | | | | | |
|------------|-----|-------|-------|-------|-------|
| Calcium | ppm | ● 41 | ● 40 | ● 42 | ● 38 |
| Magnesium | ppm | ● 6 | ● 5 | ● 5 | ● 4 |
| Zinc | ppm | ● 29 | ● 32 | ● 25 | ● 17 |
| Phosphorus | ppm | ● 821 | ● 783 | ● 652 | ● 695 |
| Barium | ppm | ● 176 | ● 181 | ● 162 | ● 173 |
| Boron | ppm | ● 4 | ● 4 | ● 9 | ● 8 |

Depot: TTENEW
 Unique No: 10817115
 Signed: Don Baldrige
 Report Date: 05 Jan 2024

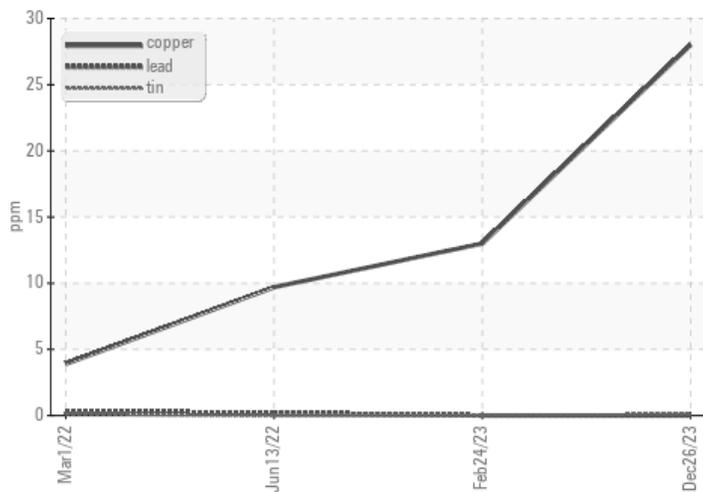


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

