

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904C071146-1071 - Front Left Wheel Hub

Sample No: LH0259106

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0259106 | LH0254210 | LHMC100045 | LHMC95825 |
| Sample Date | 12 Jun 2023 | 16 Mar 2023 | 11 Jan 2016 | 29 Sep 2015 |
| Machine Hours | 12434 | 12177 | 1053 | 517 |
| Oil Hours | 2000 | 500 | 1053 | 517 |
| Oil Changed | Changed | Not Changd | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | ABNORMAL |

BAY DISPOSAL

2224 SPRINGFIELD AVE
NORFOLK, VA
US 23523
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|------|-------|
| Visc @ 40°C | cSt | 113 | 112 | 57.7 | 57.48 |
|-------------|-----|-----|-----|------|-------|

T:
F:



CONTAMINATION

| | | | | | |
|-----------|-----|----|----|----|----|
| Silicon | ppm | 7 | 7 | 4 | 7 |
| Sodium | ppm | 12 | 6 | 16 | 19 |
| Potassium | ppm | 0 | <1 | 2 | 11 |

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 | 48 | 28 | 31 | 34 |
| Copper | ppm | 14 | 11 | 20 | 20 |
| Lead | ppm | 0 | 0 | <1 | <1 |
| Tin | ppm | 0 | 0 | <1 | 0 |
| Aluminum | ppm | <1 | <1 | 1 | 1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 0 | <1 | 0 | 0 |
| Nickel | ppm | 0 | 0 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | <1 |



ADDITIVES

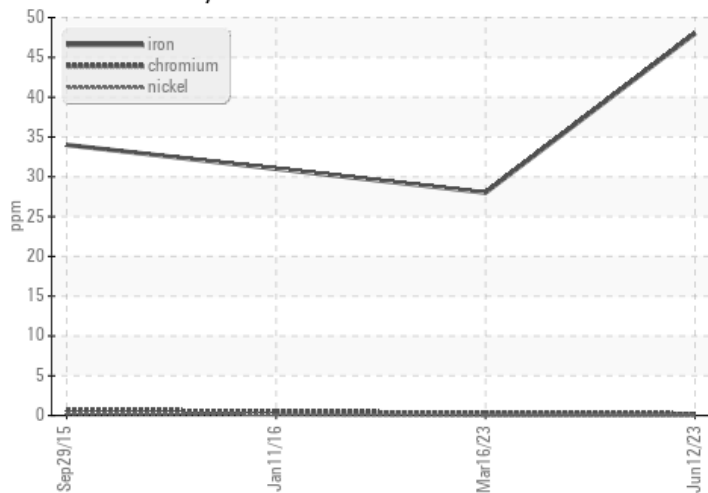
| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 3307 | 3468 | 3008 | 3526 |
| Magnesium | ppm | 10 | 10 | 7 | 9 |
| Zinc | ppm | 1312 | 1421 | 1161 | 1461 |
| Phosphorus | ppm | 1328 | 1154 | 1023 | 1120 |
| Barium | ppm | 0 | 0 | 0 | <1 |
| Boron | ppm | 114 | 106 | 80 | 96 |

Depot: BAYNOR
Unique No: 10548849
Signed: Don Baldrige
Report Date: 11 Jul 2023

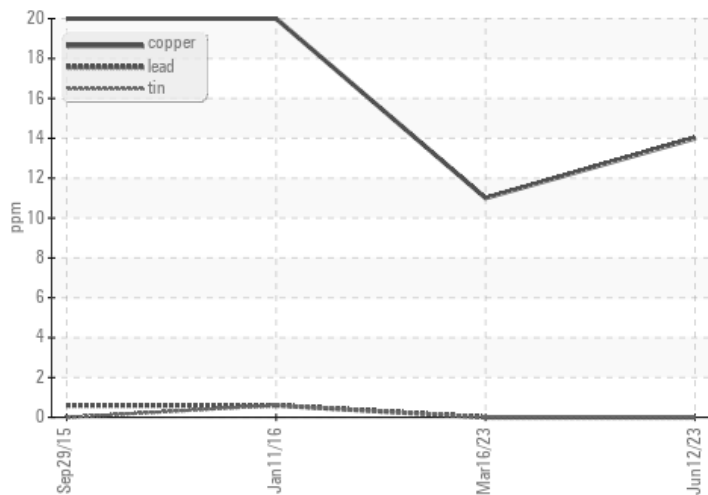


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

