

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KIMMEL]] LIEBHERR LH50 145582-1216 - Rear Right Wheel H

Sample No: LH0272948

Oil Type: LIEBHERR GEAR BASIC 90 LS



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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0272948 | LH0268528 | LH0243266 | LH0243206 |
| Sample Date | 20 Nov 2023 | 14 Sep 2023 | 15 Jun 2023 | 15 Mar 2023 |
| Machine Hours | 2062 | 1633 | 1005 | 461 |
| Oil Hours | 0 | 1633 | 0 | 461 |
| Oil Changed | Changed | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 155 | 155 | 158 | 153 |
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 6 | 7 | 7 | 8 |
| Sodium | ppm | <1 | 1 | 2 | 3 |
| Potassium | ppm | 2 | 2 | 3 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 19 | 23 | 20 | 19 |
| Copper | ppm | 19 | 17 | 10 | 5 |
| Lead | ppm | 0 | 0 | 1 | 0 |
| Tin | ppm | 0 | 0 | <1 | 0 |
| Aluminum | ppm | 2 | <1 | 2 | 0 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 3 | 4 | 4 | 4 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | <1 | 1 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 157 | 167 | 181 | 184 |
| Magnesium | ppm | 1 | <1 | 6 | 3 |
| Zinc | ppm | 18 | 34 | 31 | 21 |
| Phosphorus | ppm | 1472 | 1450 | 1536 | 1411 |
| Barium | ppm | 2 | 0 | <1 | 0 |
| Boron | ppm | 4 | 5 | 5 | 7 |

Diagnosis

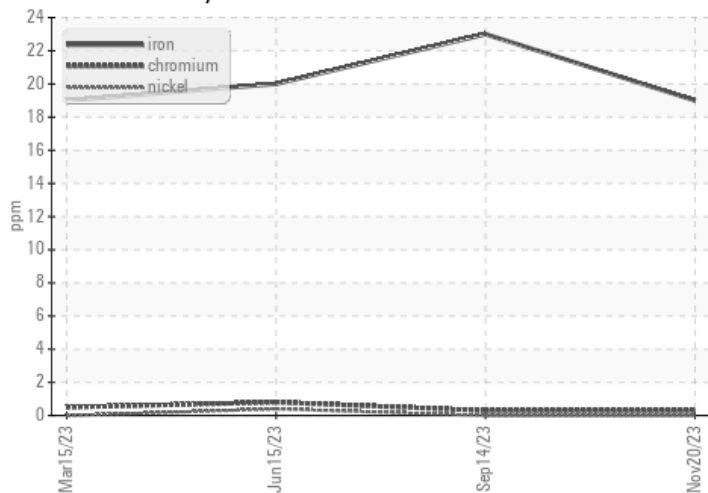
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRLH
 Unique No: 10849978
 Signed: Wes Davis
 Report Date: 30 Jan 2024

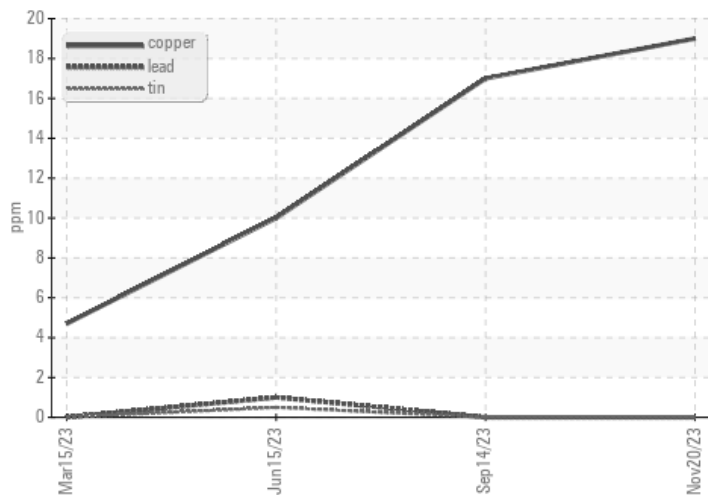


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

