

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 1200-72683 - Front Left Wheel Hub

Sample No: LH06063164

Oil Type: GEAR OIL SAE 80W90



SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303
 Contact: SERVICE MANAGER



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | LH06063164 | LH0235767 | LH0217615 | LHMC133959 |
| Sample Date | 12 Jan 2024 | 27 Sep 2023 | 23 Mar 2023 | 06 Sep 2022 |
| Machine Hours | 14822 | 14249 | 13667 | 12693 |
| Oil Hours | 0 | 0 | 1000 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



OIL CONDITION

| | | | | | |
|-------------|-----|------------|------|------|------|
| Visc @ 40°C | cSt | 122 | 98.5 | 93.0 | 94.8 |
|-------------|-----|------------|------|------|------|

T:
F:



CONTAMINATION

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

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 | 69 | 89 | 28 | 25 |
| Copper | ppm | 2 | 4 | 2 | 2 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | 2 | <1 | <1 | <1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | <1 | <1 | <1 | 1 |
| Nickel | ppm | 0 | 0 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | 1 | <1 | <1 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 26 | 25 | 27 | 20 |
| Magnesium | ppm | 7 | 8 | 9 | 7 |
| Zinc | ppm | 0 | 0 | 11 | 6 |
| Phosphorus | ppm | 424 | 302 | 357 | 340 |
| Barium | ppm | 2 | 0 | 0 | 0 |
| Boron | ppm | <1 | 0 | 4 | 5 |

Depot: SPASPALH
Unique No: 10834546
Signed: Wes Davis
Report Date: 18 Jan 2024



GRAPHS

