

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 139284-1253 - Front Right Wheel Hub

Sample No: LH0241877

Oil Type: LIEBHERR GEAR BASIC 90 LS



HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

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SAMPLE INFORMATION

| Sample Number | LH0241877 | LH0239958 | LH0208258 | LH0241856 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 31 Oct 2023 | 04 Sep 2023 | 07 Jun 2023 | 07 Jun 2023 |
| Machine Hours | 2739 | 2265 | 1668 | 1668 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



OIL CONDITION

| Visc @ 40°C | cSt | 177 | 179 | 173 | 176 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 2 | 2 | 4 | 4 |
| Sodium | ppm | 4 | 6 | 6 | 6 |
| Potassium | ppm | 0 | <1 | 1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 25 | 25 | 27 | 35 |
| Copper | ppm | 2 | 4 | 5 | 6 |
| Lead | ppm | 0 | <1 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | <1 | <1 |
| Chromium | ppm | 0 | 0 | <1 | <1 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | <1 | 0 | 0 |
| Manganese | ppm | 0 | 0 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 87 | 121 | 220 | 244 |
| Magnesium | ppm | <1 | <1 | 2 | 3 |
| Zinc | ppm | 31 | 39 | 87 | 108 |
| Phosphorus | ppm | 2261 | 2281 | 2301 | 2308 |
| Barium | ppm | 0 | <1 | 0 | 0 |
| Boron | ppm | 3 | 4 | 8 | 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: HUBBOI
Unique No: 5710193
Signed: Kevin Marson
Report Date: 16 Jan 2024



GRAPHS

