

LIEBHERR

CONSTRUCTION EQUIPMENT



[(361220)] LIEBHERR LH50M 134706-1216 - Front Right Wheel

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



Sample Information

| Sample Number | LH | LH | LH | LH0250096 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 17 Jun 2024 | 15 Feb 2024 | 12 Sep 2023 | 27 Mar 2023 |
| Machine Hours | 5960 | 5100 | 4000 | 2020 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | N/A |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

Industrial Metals

550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager



Oil Condition

| Visc @ 40°C | cSt | 178 | 178 | 174 | 173 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |

T:
F:



Contamination

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 6 | 11 | 13 | 12 |
| Sodium | ppm | 6 | 9 | 15 | 12 |
| Potassium | ppm | 1 | 2 | 2 | 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 | 22 | 35 | 40 | 35 |
| Copper | ppm | 2 | 3 | 4 | 4 |
| Lead | ppm | 0 | 0 | 0 | <1 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | 1 | 2 | 1 |
| Chromium | ppm | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | 0 | 0 | <1 | <1 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | <1 | 2 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 31 | 47 | 87 | 108 |
| Magnesium | ppm | 2 | 2 | 2 | 1 |
| Zinc | ppm | 23 | 29 | 42 | 38 |
| Phosphorus | ppm | 2321 | 2274 | 2371 | 2438 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 1 | 1 | 3 | 3 |

Depot: IND550WIN
Unique No: 5800549
Signed: Wes Davis
Report Date: 19 Jun 2024



Graphs

