

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 145272-1253 - Front Right Wheel Hub

Sample No: LH

Oil Type: GEAR OIL LS 80W90



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH | LH0250156 | LH0250173 | --- |
| Sample Date | 14 Mar 2024 | 08 Sep 2023 | 05 Jun 2023 | --- |
| Machine Hours | 2004 | 1004 | 500 | --- |
| Oil Hours | 0 | 0 | 500 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

Industrial Metals

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



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|------|-----|
| Visc @ 40°C | cSt | 188 | 169 | 64.8 | --- |
|-------------|-----|-----|-----|------|-----|

T:
F:



CONTAMINATION

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Silicon | ppm | 11 | 2 | 6 | --- |
| Sodium | ppm | 9 | 4 | 20 | --- |
| Potassium | ppm | 1 | 1 | <1 | --- |

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm. 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 | 123 | 9 | 19 | --- |
| Copper | ppm | 8 | 2 | 28 | --- |
| Lead | ppm | <1 | <1 | <1 | --- |
| Tin | ppm | 0 | 0 | 0 | --- |
| Aluminum | ppm | 1 | <1 | 1 | --- |
| Chromium | ppm | 2 | 0 | <1 | --- |
| Molybdenum | ppm | 0 | 0 | 0 | --- |
| Nickel | ppm | <1 | <1 | <1 | --- |
| Titanium | ppm | 0 | 0 | <1 | --- |
| Silver | ppm | 0 | <1 | 0 | --- |
| Manganese | ppm | 2 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|-----|
| Calcium | ppm | 345 | 422 | 3907 | --- |
| Magnesium | ppm | 3 | 3 | 10 | --- |
| Zinc | ppm | 108 | 206 | 1476 | --- |
| Phosphorus | ppm | 2282 | 2162 | 1267 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 7 | 10 | 101 | --- |

Depot: IND550WIN
Unique No: 5748254
Signed: Kevin Marson
Report Date: 19 Mar 2024



GRAPHS

