

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138820-1216 - Front Right Wheel Hub

Sample No: LH0279433

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH0279433 | LH0260713 | LH | --- |
| Sample Date | 11 Dec 2023 | 26 May 2023 | 26 Mar 2023 | --- |
| Machine Hours | 2140 | 950 | 524 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | N/A | N/A | N/A | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

D.P. Metal Inc.

373A Chemin Grande-Ligne

Saint-Urbain Premier, QC

CA J0S 1Y0

Contact: Service .



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 172 | 147 | 145 | --- |
|-------------|-----|-----|-----|-----|-----|

T: (450)427-0506

F:



CONTAMINATION

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Silicon | ppm | 7 | 8 | 15 | --- |
| Sodium | ppm | 10 | 8 | 4 | --- |
| Potassium | ppm | <1 | 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 | 56 | 34 | 45 | --- |
| Copper | ppm | 16 | 14 | 14 | --- |
| Lead | ppm | 1 | <1 | <1 | --- |
| Tin | ppm | 0 | 0 | 0 | --- |
| Aluminum | ppm | 2 | 1 | 1 | --- |
| Chromium | ppm | <1 | <1 | <1 | --- |
| Molybdenum | ppm | 0 | <1 | <1 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | 0 | <1 | <1 | --- |
| Silver | ppm | <1 | 0 | 0 | --- |
| Manganese | ppm | 2 | 3 | 3 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|-----|
| Calcium | ppm | 37 | 94 | 121 | --- |
| Magnesium | ppm | <1 | 1 | 1 | --- |
| Zinc | ppm | 32 | 29 | 29 | --- |
| Phosphorus | ppm | 2453 | 3221 | 1559 | --- |
| Barium | ppm | <1 | 0 | 0 | --- |
| Boron | ppm | 4 | 9 | 10 | --- |

Depot: DPMSAI

Unique No: 5696982

Signed: Wes Davis

Report Date: 18 Dec 2023



GRAPHS

