

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138820-1216 - Swing Drive

Sample No: LH0279437

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH0279437 | LH0260710 | 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 | 177 | 181 | 176 | --- |
|-------------|-----|-----|-----|-----|-----|

T: (450)427-0506
 F:



CONTAMINATION

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Silicon | ppm | 1 | 2 | 14 | --- |
| Sodium | ppm | 2 | 1 | 4 | --- |
| Potassium | ppm | 0 | 0 | 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 | 104 | 98 | 499 | --- |
| Copper | ppm | 32 | 50 | 200 | --- |
| Lead | ppm | 1 | 1 | 6 | --- |
| Tin | ppm | 2 | 5 | 21 | --- |
| Aluminum | ppm | <1 | <1 | 5 | --- |
| Chromium | ppm | <1 | <1 | 2 | --- |
| Molybdenum | ppm | 0 | 0 | 0 | --- |
| Nickel | ppm | <1 | 0 | <1 | --- |
| Titanium | ppm | 0 | 0 | <1 | --- |
| Silver | ppm | <1 | 0 | 0 | --- |
| Manganese | ppm | <1 | <1 | 4 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|-----|
| Calcium | ppm | 10 | 10 | 28 | --- |
| Magnesium | ppm | <1 | <1 | <1 | --- |
| Zinc | ppm | 24 | 10 | 30 | --- |
| Phosphorus | ppm | 2331 | 2515 | 2434 | --- |
| Barium | ppm | <1 | <1 | 3 | --- |
| Boron | ppm | 3 | 3 | 11 | --- |

Depot: DPMSAI
 Unique No: 5696979
 Signed: Wes Davis
 Report Date: 18 Dec 2023



GRAPHS

