

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 119193-1253 - Swing Drive

Sample No: LH0274833

Oil Type: PETRO CANADA 75W90



BRIGHTON RECYCLING

686 COUNTY RD 64
BRIGHTON, ON
CA K0K 1H0
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SAMPLE INFORMATION

| Sample Number | LH0274833 | LH0261286 | LH0234945 | LH0230625 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 04 Oct 2023 | 19 Apr 2023 | 14 Nov 2022 | 06 Jun 2022 |
| Machine Hours | 5149 | 4489 | 3951 | 3290 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |



OIL CONDITION

| Visc @ 40°C | cSt | 104 | 101 | 103 | 101 |
|-------------|-----|-----|-----|-----|-----|
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| Water | % | --- | --- | 0.785 | --- |
|-----------|-----|-----|-----|-------|-----|
| Silicon | ppm | 3 | 4 | 4 | 4 |
| Sodium | ppm | <1 | <1 | 2 | 1 |
| Potassium | ppm | 0 | 2 | 1 | 2 |



WEAR METALS

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Iron | ppm | 860 | 724 | 649 | 463 |
| Copper | ppm | 65 | 99 | 104 | 67 |
| Lead | ppm | 2 | 4 | 5 | 2 |
| Tin | ppm | 0 | <1 | <1 | <1 |
| Aluminum | ppm | <1 | <1 | <1 | <1 |
| Chromium | ppm | 6 | 5 | 5 | 4 |
| Molybdenum | ppm | <1 | <1 | <1 | <1 |
| Nickel | ppm | 0 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | <1 | 0 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | 5 | 5 | 5 | 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 10 | 11 | 11 | 13 |
| Magnesium | ppm | 1 | 1 | 2 | 2 |
| Zinc | ppm | 21 | 16 | 27 | 27 |
| Phosphorus | ppm | 1150 | 1382 | 1429 | 1249 |
| Barium | ppm | <1 | 0 | 0 | 1 |
| Boron | ppm | 165 | 214 | 195 | 209 |

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: BRI686BRI
Unique No: 5657399
Signed: Kevin Marson
Report Date: 11 Oct 2023



GRAPHS

