

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347076)] LIEBHERR L586 062518-1761 - Front Right Wheel

Sample No: LH0269538

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0269538 | LH0234510 | LH0238544 | LH0224200 |
| Sample Date | 28 Aug 2023 | 17 Jan 2023 | 20 Aug 2022 | 30 Mar 2022 |
| Machine Hours | 7038 | 5327 | 4090 | 2924 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | N/A | Changed | Changed |
| Sample Status | SEVERE | NORMAL | NORMAL | NORMAL |

MODERN CONSTRUCTION (1983) LTD.
 364 BRIGGS CROSS ROAD
 STILESVILLE, NB
 CA E1G 3G3
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OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 175 | 174 | 174 | 189 |
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----|----|----|----|
| Silicon | ppm | 36 | 22 | 19 | 12 |
| Sodium | ppm | 4 | 3 | 4 | 3 |
| Potassium | ppm | 2 | <1 | 1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Iron | ppm | 728 | 421 | 320 | 288 |
| Copper | ppm | 375 | 260 | 171 | 330 |
| Lead | ppm | 10 | 6 | 5 | 9 |
| Tin | ppm | 23 | 13 | 8 | 10 |
| Aluminum | ppm | 11 | 6 | 7 | 2 |
| Chromium | ppm | 5 | 3 | 2 | 2 |
| Molybdenum | ppm | <1 | 0 | 0 | 0 |
| Nickel | ppm | <1 | <1 | <1 | 1 |
| Titanium | ppm | <1 | <1 | <1 | 0 |
| Silver | ppm | 0 | 1 | 0 | 0 |
| Manganese | ppm | 10 | 8 | 10 | 18 |
| Vanadium | ppm | <1 | <1 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 20 | 18 | 20 | 14 |
| Magnesium | ppm | 6 | 3 | 3 | <1 |
| Zinc | ppm | 108 | 81 | 80 | 57 |
| Phosphorus | ppm | 2267 | 2519 | 2359 | 2422 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 1 | 1 | <1 | 4 |

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper ppm levels are severe. Lead and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MODSTI
 Unique No: 5632823
 Signed: Kevin Marson
 Report Date: 01 Sep 2023



GRAPHS

