

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Rear Differential

Sample No: LH0278598

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0278598 | LH0278520 | LH | LH0265763 |
| Sample Date | 21 Feb 2024 | 22 Dec 2023 | 15 Sep 2023 | 21 Aug 2023 |
| Machine Hours | 8026 | 7142 | 0 | 5330 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

Gerdau - Mandak Metal Processors Ltd.,
 1 Railway St., P.O. Box 334
 Selkirk, MB
 CA R1A 2B3
 Contact: Santiago Giraldo
 santiago.giraldo@gerdau.com
 T:
 F: (204)482-8241



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 190 | 192 | 179 | 178 |
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 3 | 2 | 2 | 4 |
| Sodium | ppm | 2 | 2 | 2 | 1 |
| Potassium | ppm | <1 | <1 | 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 | 40 | 34 | 13 | 18 |
| Copper | ppm | 10 | 5 | 5 | 6 |
| Lead | ppm | <1 | 0 | 0 | 0 |
| Tin | ppm | <1 | <1 | 0 | <1 |
| Aluminum | ppm | <1 | <1 | 0 | <1 |
| Chromium | ppm | <1 | 0 | 0 | 0 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | 5 | 2 | 1 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 7 | 5 | 14 | 12 |
| Magnesium | ppm | 1 | <1 | <1 | <1 |
| Zinc | ppm | 7 | 8 | 18 | 18 |
| Phosphorus | ppm | 2320 | 2266 | 2258 | 2407 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 7 | 0 | 1 | <1 |

Depot: MANSEL
 Unique No: 5736736
 Signed: Wes Davis
 Report Date: 04 Mar 2024



GRAPHS

