LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR EQUIPMENT SOURCE 8200 FAYETTEVILLE ROAD

alumina-silicate (coarse dirt) ingress. The water content is negligible. The oil viscosity is higher than normal. The oil is no longer serviceable as a result of the abnormal and/or severe

[[TERRAHAWK]] LIEBHERR R920 047896-1705 - Left Final Dr

Sample No: LH0244610

Oil Type: LIEBHERR GEAR BASIC 90 LS

| SAMPLE INFORMATION | | | | | |
|--------------------|-----|--------------|--|--|--|
| Sample Number | | LH0244610 | | | |
| Sample Date | | 24 Jan 2024 | | | |
| Machine Hours | | 900 | | | |
| Oil Hours | | 900 | | | |
| Oil Changed | | Changed | | | |
| Sample Status | | SEVERE | | | |
| | | | | | |
| OIL CONDITION | | | | | |
| Visc @ 40°C | cSt | 269 | | | |
| CONTAMINATION | | | | | |
| Water | % | 0.152 | | | |
| Silicon | ppm | 0 84 | | | |
| Sodium | ppm | 9 | | | |
| Potassium | ppm | 15 | | | |
| WEAR METALS | | | | | |
| Iron | ppm | 1668 | | | |

| 00 =: 000 |
|--|
| Contact: Timothy Bailey |
| timothy.bailey@liebherr.com |
| T: |
| F: (919)329-0084 |
| |
| Diagnosis |
| Diagnosis |
| We advise that you check all areas |
| where dirt can enter the system. The |
| oil change at the time of sampling |
| has been noted. We advise that you |
| inspect for the source(s) of wear. We |
| recommend an early resample to |
| monitor this condition.Gear wear is |
| indicated. Elemental levels of silicon |
| (Si) and aluminum (Al) indicate |
| |

wear.

RALEIGH, NC US 27603

| Copper | ppm | () <1 | | | |
|------------|-----|--------------|--|--|--|
| Lead | ppm | 0 | | | |
| Tin | ppm | () <1 | | | |
| Aluminum | ppm | 17 | | | |
| Chromium | ppm | <u> </u> | | | |
| Molybdenum | ppm | 0 | | | |
| Nickel | ppm | 2 | | | |
| Titanium | ppm | 2 | | | |
| Silver | ppm | 0 | | | |
| Manganese | ppm | 13 | | | |
| Vanadium | ppm | <1 | | | |
| ADDITIVES | | | | | |

| ADDITIVES | | | | | | | |
|------------|-----|-------------|--|--|--|--|--|
| Calcium | ppm | 68 | | | | | |
| Magnesium | ppm | 4 | | | | | |
| Zinc | ppm | 30 | | | | | |
| Phosphorus | ppm | 1807 | | | | | |
| Barium | ppm | 13 | | | | | |
| Boron | ppm | O <1 | | | | | |

Depot:LIEBHERRNCUnique No:10848679Signed:Sean FeltonReport Date:30 Jan 2024

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GRAPHS

