

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 045422-1705 - Swing Drive

Sample No: LHMC116254

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LHMC116254 | LH0229831 | LH0217221 | LHMC104382 |
| Sample Date | 11 Jul 2023 | 29 Nov 2022 | 15 Apr 2022 | 07 Feb 2022 |
| Machine Hours | 9805 | 8143 | 7593 | 7059 |
| Oil Hours | 1000 | 500 | 500 | 500 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

POTOMAC METALS

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OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 206 | 370 | 360 | 367 |
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----|----|----|----|
| Silicon | ppm | <1 | 1 | <1 | 1 |
| Sodium | ppm | <1 | <1 | 2 | 0 |
| Potassium | ppm | 0 | <1 | 0 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 14 | 31 | 32 | 32 |
| Copper | ppm | 11 | 30 | 17 | 14 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | <1 | 1 | <1 |
| Aluminum | ppm | 0 | <1 | <1 | 0 |
| Chromium | ppm | 0 | <1 | 0 | <1 |
| Molybdenum | ppm | 0 | <1 | <1 | 1 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 8 | 2 | 2 | 5 |
| Magnesium | ppm | 4 | <1 | 0 | 0 |
| Zinc | ppm | 12 | 24 | 0 | 0 |
| Phosphorus | ppm | 2153 | 1092 | 1052 | 1150 |
| Barium | ppm | 6 | 0 | 0 | 0 |
| Boron | ppm | 0 | 1 | 2 | 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.

Depot: POTSTE
Unique No: 10635925
Signed: Don Baldrige
Report Date: 10 Sep 2023



GRAPHS

