

# LAB REPORT

Unit ID **Lift**  
 Component **Spherical Roller Bearing**  
 Current sample number **1705223**

+49 8034-9047-210

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OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Machine type: **Spherical Roller Bearing**  
 Manufacturer: **Dopplmayr**  
 Grease type: **Nils Atomic RH EP 2**  
 Grease quantity in the bearing: **490 g**  
 NLGI class: **2**

## Diagnosis for the current laboratory values

The values for wear metals have only increased slightly. This low wear is within the normal range. The penetration fits to the NLGI class 2. The water content is within the normal range. Please observe further changes with the next sample. I recommend that you send the next sample at the next service interval or at your regular inspection for trend analysis.

Dipl.-Ing. Andy Böhme (MLA II + CLS)

## Sample Rating



normal

| ANALYSIS RESULTS           |     |       | Current sample | Previous samples |            |            |
|----------------------------|-----|-------|----------------|------------------|------------|------------|
| LAB NUMBER                 |     |       | 1705223        | 1705224          | 1705225    | 1705226    |
| SAMPLE RATING              |     |       | ✓              | ✓                | ⚠          | ✓          |
| Date tested                |     |       | 27.04.2023     | 19.04.2022       | 20.04.2021 | 20.04.2020 |
| Date of sample taken       |     |       | 08.04.2023     | 05.04.2022       | 07.04.2021 | 07.04.2020 |
| Date of last relubrication |     |       | 01.02.2023     | 17.02.2022       | 01.02.2021 | 07.04.2020 |
| Relubrication Quantity     | g   |       | 800            | 800              | 800        | 800        |
| Relubrication Interval     | h   |       | 500            | 500              | 2          | 2          |
| Total operating time       | h   |       | 23100          | 21920            | 20800      | 19574      |
| Relubrication              |     |       | yes            | yes              | yes        | yes        |
| Sampling Point             |     |       | Sampling Hole  | -                | -          | -          |
| WEAR                       |     |       |                |                  |            |            |
| Iron                       | Fe  | mg/kg | 67             | 7                | 7          | 7          |
| Chrome                     | Cr  | mg/kg | 0              | 0                | 0          | 0          |
| Tin                        | Sn  | mg/kg | 0              | 0                | 0          | 0          |
| Aluminum                   | Al  | mg/kg | 6              | 5                | 5          | 4          |
| Nickel                     | Ni  | mg/kg | 0              | 0                | 0          | 0          |
| Copper                     | Cu  | mg/kg | 7              | 5                | 10         | 13         |
| Lead                       | Pb  | mg/kg | 0              | 0                | 0          | 0          |
| Manganese                  | Mn  | mg/kg | 2              | 2                | 3          | 2          |
| PQ index                   | -   |       | < 25           | < 25             | < 25       | < 25       |
| CONTAMINATION              |     |       |                |                  |            |            |
| Silicon                    | Si  | mg/kg | 7              | 5                | 5          | 4          |
| Potassium                  | K   | mg/kg | 3              | 2                | 3          | 2          |
| Sodium                     | Na  | mg/kg | 99             | 94               | 89         | 89         |
| Titanium                   | Ti  | mg/kg | 1              | 1                | 1          | -          |
| Vanadium                   | V   | mg/kg | -              | 1                | 1          | -          |
| Water K. F.                | ppm |       | 489            | 529              | 562        | 294        |
| ADDITIVES                  |     |       |                |                  |            |            |
| Calcium                    | Ca  | mg/kg | 9949           | 8509             | 4546       | 7168       |
| Magnesium                  | Mg  | mg/kg | 58             | 50               | 54         | 49         |
| Boron                      | B   | mg/kg | 1              | 1                | 1          | 0          |
| Zinc                       | Zn  | mg/kg | 4847           | 5137             | 3226       | 4586       |
| Phosphorus                 | P   | mg/kg | 3160           | 3251             | 3260       | 2924       |
| Barium                     | Ba  | mg/kg | 4              | 2                | 1          | 2          |
| Molybdenum                 | Mo  | mg/kg | 3              | 3                | 5          | 3          |
| Lithium                    | Li  | mg/kg | 57             | 418              | 43         | 365        |
| ADDITIONAL TESTS           |     |       |                |                  |            |            |
| Unworked penetration       |     |       | 294            | 305              | 406        | 335        |

## Additional sample details

Ambient conditions: **Wet**

## Bottle and cap



## Infrared Spectrum

