

# 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

