

LAB REPORT

Unit id
WIND TURBINE 1
Component
main bearing, grease lubricated



Lab number: 1704316

Machine type **MD70/77 1500 kW, Fuhrländer** Manufacturer **SKF** Grease type **SKF LGEP 2**
Grease quantity in system **6 kg** Serial number **AHV-0052**

Sample Report
Scope of Analysis: Wind Power Kit

All determined values are within the permissible tolerance limits. We find neither unusual wear nor harmful contamination. Continued operation is possible without corrective measures. You should monitor further changes based on the next analysis. I advise you: Send us the next sample at your next maintenance or on the occasion of the usual inspection to observe the trend behavior.



NORMAL

Dipl.-Ing. Andy Böhme (CLS)

ANALYSIS RESULTS			Current sample	Previous samples →				
Lab number			1704316	1704317	1704318	1704319	1704320	1704321
SAMPLE RATING			✓	✓	ⓘ	⚠	⚠	⚠
Date of examination			02.06.2025	18.11.2024	15.04.2024	08.02.2024	03.07.2023	04.10.2022
Date of sample taken			15.05.2025	03.11.2024	-	27.01.2024	18.05.2023	18.09.2022
Date of last relubrication			-	-	-	-	-	-
Refil volume			-	5 kg	2.5 kg	5 kg	-	-
Relubrication interval			-	-	-	-	-	74373 h
Total operating time of unit			97012 h	92486.4 h	-	85830 h	-	74373 h
Relubrication			-	-	-	no	-	-
WEAR								
Iron	Fe	mg/kg	395	344	791	2040	2307	4178
Chrome	Cr	mg/kg	6	8	8	17	14	24
Tin	Sn	mg/kg	0	0	0	0	0	0
Aluminum	Al	mg/kg	2	2	1	2	3	2
Nickel	Ni	mg/kg	1	1	1	1	2	2
Copper	Cu	mg/kg	11	12	12	14	22	23
Lead	Pb	mg/kg	1	2	2	1	4	4
Manganese	Mn	mg/kg	3	4	3	4	6	5
PQ index	-	-	202	209	228	234	295	293
CONTAMINATION								
Silicon	Si	mg/kg	8	8	8	8	14	11
Potassium	K	mg/kg	3	3	3	4	4	4
Sodium	Na	mg/kg	81	99	105	218	179	87
Titanium	Ti	mg/kg	-	-	-	-	1	-
Vanadium	V	mg/kg	-	1	1	1	-	1
Tungsten	W	mg/kg	-	-	-	3	9	5
Cadmium	Cd	mg/kg	-	-	-	-	1	-
Cobalt	Co	mg/kg	-	-	-	-	1	-
Water K. F.		ppm	572	556	495	522	303	881
BASE OIL CONDITION								
IR index	-	-	97.35	98.72	98.73	98.88	99.33	-

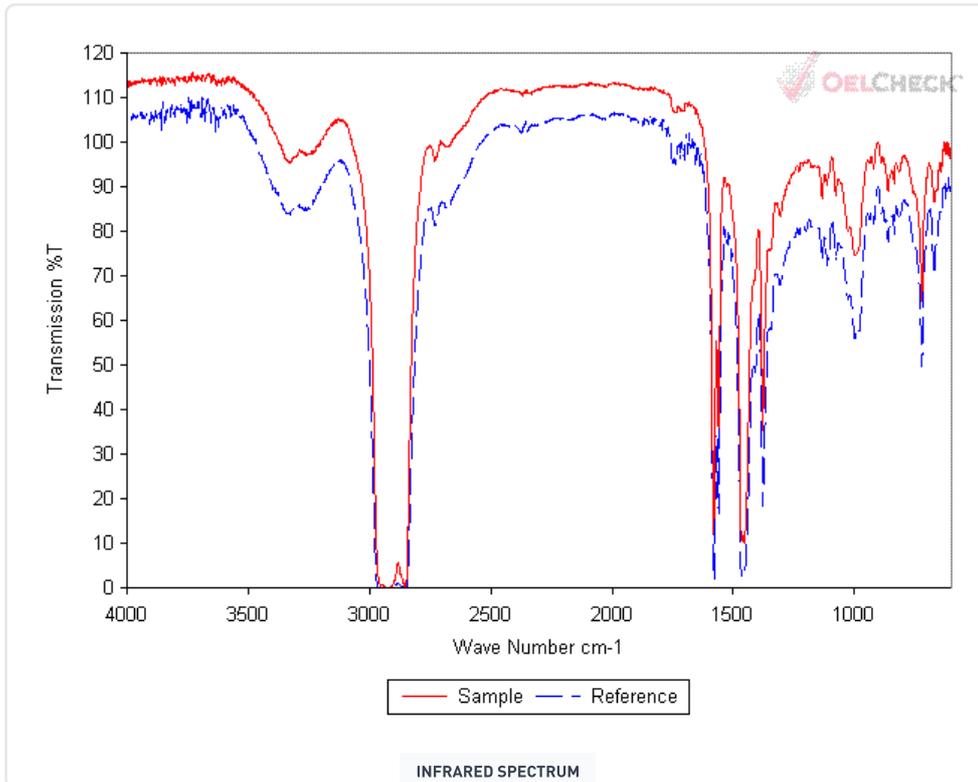


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ADDITIVES								
Calcium	Ca	mg/kg	2460	3033	3020	5247	4373	6736
Magnesium	Mg	mg/kg	8	6	6	7	10	7
Boron	B	mg/kg	4	4	4	4	7	6
Zinc	Zn	mg/kg	2926	3189	3190	7533	8941	9314
Phosphorus	P	mg/kg	2462	2481	2143	2171	2676	2571
Barium	Ba	mg/kg	0	1	0	1	1	2
Molybdenum	Mo	mg/kg	3	2	2	2	3	2
Lithium	Li	mg/kg	2588	2402	2159	2399	2639	2377

SAMPLE PICTURES



Any questions?

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LAB.REPORT



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sample/1704316