

LAB REPORT

Unit id
WIND TURBINE 1
Component
Azimuth Gear

Lab number: 1704486

Machine type
GT01

Manufacturer
Bonfiglioli

Oil brand name
Mobil Mobilgear SHC XMP 320

Sample Report
Scope of Analysis: Wind Power Kit

Oil quantity in system
35 l

Serial number
BT13005610

Iron has increased slightly. The PQ index shows an elevated proportion of magnetizable iron particles. Contamination and/or streaks are already visible to the naked eye in the sample. The sampling procedure may have influenced the determined values. You should monitor further changes based on the next analysis. I recommend: Send us the next sample at your next maintenance or during the regular inspection to observe the trend behavior.

Dipl.-Ing. Andy Böhme [CLS]



CAUTION

ANALYSIS RESULTS			Current sample	Previous samples →				
Lab number			1704486	1704487				
SAMPLE RATING								
Date of examination			03.02.2025	20.12.2023				
Date of sample taken			09.11.2024	20.09.2023				
Date of last oil change			-	-				
Top-up since change			-	-				
Operating time since change			17232 h	7404 h				
Total operating time			17232 h	7404 h				
Oil changed			no	no				
WEAR								
Iron	Fe	mg/kg	216	66				
Chrome	Cr	mg/kg	5	2				
Tin	Sn	mg/kg	0	0				
Aluminum	Al	mg/kg	0	0				
Nickel	Ni	mg/kg	2	1				
Copper	Cu	mg/kg	0	1				
Lead	Pb	mg/kg	0	0				
Manganese	Mn	mg/kg	4	2				
PQ index	-	-	97	30				
CONTAMINATION								
Silicon	Si	mg/kg	19	15				
Potassium	K	mg/kg	1	0				
Sodium	Na	mg/kg	0	2				
Bismuth	Bi	mg/kg	-	1				
Water K. F.		ppm	102	55				
OIL CONDITION								
Viscosity at 40 °C		mm ² /s	314.73	306.79				
Viscosity at 100 °C		mm ² /s	40.96	39.94				
Viscosity index		-	185	184				
Oxidation		A/cm	-	-				
IR index		-	98.95	99.17				

LAB REPORT

Unit id
WIND TURBINE 1
Component
Azimuth Gear



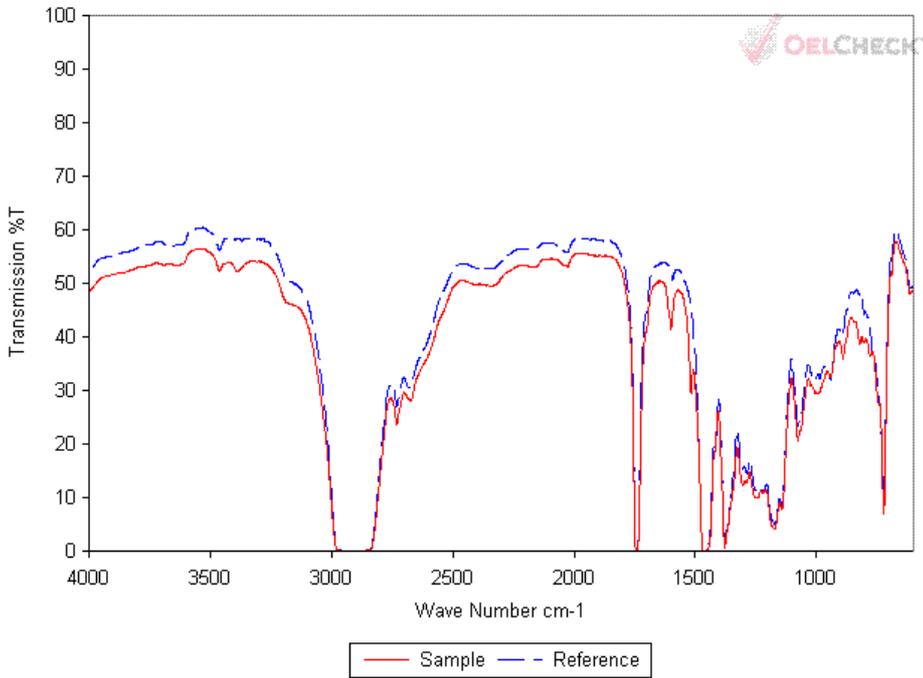
ANALYSIS RESULTS (...)			Current sample	Previous samples →				
Lab number			1704486	1704487				
SAMPLE RATING			i	i				
Date of examination			03.02.2025	20.12.2023				
Date of sample taken			09.11.2024	20.09.2023				
ADDITIVES								
Calcium	Ca	mg/kg	1	1				
Magnesium	Mg	mg/kg	0	0				
Boron	B	mg/kg	0	0				
Zinc	Zn	mg/kg	7	3				
Phosphorus	P	mg/kg	391	366				
Barium	Ba	mg/kg	0	0				
Molybdenum	Mo	mg/kg	0	0				
Sulphur	S	mg/kg	1700	1608				
ADDITIONAL TESTS								
AN / NN		mgKOH/g	0.78	0.86				



LAB REPORT

Unit id
WIND TURBINE 1
Component
Azimuth Gear

SAMPLE IMAGES (LABORATORY NUMBER: 1704486)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

Phone: +49 8034 9047-210
ta@oelcheck.de

LAB.REPORT



- View all laboratory reports at any time - Have them translated directly if required
- Flexible search and filter functions for quick results
- High-resolution images and graphics for optimal detail analysis
- Convenient creation of meaningful trend graphs



[www.lab.report/
sample/1704486](http://www.lab.report/sample/1704486)