

Unit ID **Wind energy system 1**
Component **Azimuth drive**
Lab number **1704486**

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Example report
Analysis scope: Wind power analysis kit

Machine type: **GT01**
Manufacturer: **Bonfiglioli**
Sample from: **Azimuth Gear**
Oil brand name: **Mobil Mobilgear SHC XMP 320**
Oil quantity in system: **35 l**

Serial number: **BT13005610**

Diagnosis for the current laboratory values



Iron has slightly increased. The PQ index indicates an increased amount of magnetic ferrous particles. There are particles and/ or smear visible in the sample with the naked eye. The sampling may have influenced the determined values. 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 (CLS)

Sample Rating



Caution

ANALYSIS RESULTS			Current sample	Previous samples	
LAB NUMBER			1704486	1704487	
SAMPLE RATING					
Date tested			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			h 17232	7404	
Total operating time			h 17232	7404	
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	mm²/s		314.73	306.79	
Viscosity at 100°C	mm²/s		40.96	39.94	
Viscosity index	-		185	184	
Oxidation	A/cm		-	-	
IR index	-		98.95	99.17	
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	

Bottle and cap



Infrared Spectrum

