

Unit ID **Wind energy system 1**
 Component **Azimuth drive**
 Current sample 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. Your sample taking procedure may have influenced the analyzed 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			i	i	
Date tested			31.01.2020	18.12.2018	
Date of sample taken			09.11.2019	20.09.2018	
Date of last oil change			-	-	
Top-up since change			-	-	
Operating time since change			17232	7404	
Total operating time			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

