

GfM Gesellschaft für Maschinendiagnose mbH

Peakanalyzer status report

Customer: XXXXXX
Turbine operator: XXXXXX

Turbine supplier, type, ser. no.: XXXXX XXX, XXXXXX, XX XXXXXXXXX

Kinematics data source: XXXXXX

Peakanalyzer no.: PA-Light, XXXXXXXX

Report period: 01.03.09 - 31.05.09

Consultant GfM: Dipl.-Ing. Andreas Viein

Reference report GfM: DYYYYAbX-D\(\frac{1}{2}\), Dip\(\frac{1}{2}\)-Ing-Np\(\frac{1}{2}\)man Schröter

GfM No.: DXXXXAb1

Number of pages:

Berlin, 25. July 2009

(Dr. Rainer Wirth, management)

(Dipl.-Ing. Andreas Klein)

You can find detailed advices for the state report on www.maschinendiagnose.com/statusbericht.

For the detected irregularities are made recommendations only on the basis of the vibration signal and if possible a failure probability is stated. For the exact quantification of irregularities have to be executed further test method.



Diagnosis result:

Nr.		found irregularities	trend	recommendation	P _{τ<1a}
rotor:					
11	rotor shaft				
12	rotor bearing				
gear shafts:					
21	planet carrier				
22	planets			٨	
23	low speed shaft			/\	n
24	intermediate shaft				4
25	high speed shaft				۱ لم
tooth meshing of gear unit:					
31	planetary stage	advice for a revolving deviation of flank shapes	®	W///	< 5 %
32	low speed stage	advice for a revolving deviation of flank shapes			< 5 %
33	high speed stage		4		
gear unit bearing:					
41	planet carrier		\\ \		
42	planet				
43	low speed shaft				
44	intermediate shaft				
45	high speed shaft				
46	planet carrier	$1 \cap 1 \cap 1 \cap 2$			
generator:					
	shaft				
52	DE bearing	outer race and cage of bearing 6330 (fg. 1, 2)	-	visual inspection, if possible	20 %
53	NDE bearing	outer race and cage of bearing 6330	®		< 5 %

trend - comparison to the last report, see reference report

↑ - intensity of irregularities increased
 → - intensity of irregularities almost unchanged

- intensity of irregularities decreased

n.m. - comparison not possible, because e.g. the measurement conditions were different

P_{x<1a} - estimated probability, that the by the vibration diagnosis assumed irregularity will lead to a failure within the next 12 months

< 5 % - a minimal irregularity is detectable, no need for action
20 % - one of five of such irregularities will lead to a failure within one year
50 % - one of two of such irregularities will lead to a failure within one year

Spectra relevant for explaining:

none

Changes of the configuration:

none

More information:

none