

Abstract

The invention relates to a method of evaluating a wear state of an
5 assembly (1, 11, 111, 112) of a flow machine, in particular of a bearing
arrangement (11, 111, 112) of a pump or turbine, wherein, for
determining a wear characteristic, a mechanical query signal (21) having a
predefinable signal shape is generated by means of a signal generator (2)
and a response signal (31) generated from the query signal (21) is detected
10 using a sensor (3) in contact with the assembly (1, 11, 111, 112). In
accordance with the invention, the response signal (31) is varied in
dependence on a variation of a physical operating value of the assembly
(1, 11, 111, 112) in accordance with a characteristic pattern, the wear
characteristic is determined from the variation of the response signal (31)
15 and the wear state is evaluated using the wear characteristic. The
invention furthermore relates to an assembly (1, 11, 111, 112) of a flow
machine having a signal generator (2) and a sensor (3) as well as to a flow
machine having such an assembly (1, 11, 111, 112).

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