

European Solar Energy Storage

Energy storage power station lubricant



Overview

Can oil mist absorption and drainage device be used in hydropower stations?

Application of oil mist absorption and drainage device in hydropower stations
Research on turbine guide bearing oil mist treatment in Huizhou pumped storage power station Hydropower Automat. Dam Monitor., 1 (2015), pp. 43 - 48
Oil mist treatment of lower guide bearing oil tank in Nalan Hydropower Plant Yunnan Electr.

Why is steady-state lubrication a problem in thrust bearing operations?

During thrust bearing operations, many physical variables describing the lubrication oil behavior are time-varying. Hence, steady-state prediction can involve potential errors, particularly due to initial and unforeseen increases in speeds.

What is the cooling process of lubricant in the tank?

The cooling process of the lubricant in the tank is shown in Fig. 7. Initially, cold oil is pumped into the inlet pipe and inner tank ($t < 1$ s) and then moves upward through the injection pipe. Subsequently, the bearing pads are lubricated because their temperature gradually increases and approximates that of the inlet pipe.

How does lubricating oil flow affect pressure field distributions?

The results show that the flow and pressure field distributions in an oil tank are mainly affected by the rotation of the thrust head and mirror plate and by the cooling circulation method, respectively. The lubricating oil motion becomes a function of gravity, centrifugal force, and Coriolis force.

Why is lubricating oil based on a steady flow simulation?

Most studies on oil flow patterns are based on steady flow field simulations, which may result in potential errors particularly due to initial and unforeseen velocity increases. The unsteady multiphase flow numerical simulation

method was used to calculate the motion behavior of lubricating oil in thrust bearing tanks at different rotating speeds.

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Unsteady characteristics of lubricating oil in thrust bearing tank

A three-dimensional model with a scale of 1:1 is formulated to simulate the operating field of the thrust bearing assembly for the Hongping Pumped Storage Power Station in Jiangxi Province, China.



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Energy storage technology lubrication

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