IDENTIFYING TURBINE MAINTENANCE ISSUES BEFORE COSTLY UNPLANNED DOWNTIME



HYDRO

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LOOK OUT FOR

POTENTIAL RE

SOLUTION

The cost of a single turbine failure can amount to hundreds of thousands of dollars per hour. We explore some of the most common turbine maintenance issues and how you can avoid them.

STEAM

TURBINE TYPES



DEPOSIT FORMATION ON BEARINGS

Excessive bearing temperatures

Select a low varnishing potential oil with excellent oxidation and thermal stability

Use oil condition monitoring to keep an eye out for rising membrane patch colorimetry values

REDUCED HYDRAULIC EFFICIENCY

Oil foaming in the reservoir

Choose an oil that has rapid air release and low foaming tendency

Check for low oil levels, antifoaming additive depletion or oil contamination and degradation

Water or steam contamination

Ensure your lubricant has excellent water separation properties

Centrifugate or vacuum dehydrate your oil to remove excessive water

DAMAGED AUXILIARY GEAR SYSTEMS

Increased component wear, due to excessive stress on the lubricant

Use a high-quality lubricant with high load carrying capacity

Inspect gears for evidence of scuffing wear

EXPERIENCE AND EXPERTISE IS KEY TO IMPROVE THE EFFICIENCY AND RELIABILITY OF YOUR OPERATIONS



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Monitor your oil and equipment performance

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