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Diagnostic and Failure of on-board high-voltage electric rotating machines

High voltage rotating machines are widely used for electric propulsion and generation on-board ships. Following to some failure, investigation started to determine the root cause, and diagnostic measurement campaigns started to get information of the machine healthy and reliability. Environmental aspects are to be considered: vibration coming from the reciprocating machines, the particular operation mode characterized by many load variations, starts and stops, the possible presence of harmonics in the grid. Passenger ships will be involved in the investigation in January.

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