

Copy of Report of Survey for Repairs, Etc. of Engines and Boilers
for the S.S. "GLADYS MOLLER" dated May 20, 1949. (SOUTHAMPTON)

Damage repairs to main propulsion generator and turbine. Please also see Bombay Surveyor's Report. Now done: turbine and generator examined under working conditions, on vessel's arrival at this port and excessive vibrations found at 3450 R.P.M. Recommended turbine be opened out for further examination. Turbine top casing lifted, rotor and blading examined and shrouding on the 6th, 7th, 8th and 9th stage blades of rotor found damaged. Blades in 2nd, 3rd, 4th, 5th and 6th rows found badly pitted and it was recommended they be renewed and rotor re-balanced.

As it was impossible to get new blades without greatly delaying vessel, the Owners requested that temporary repairs be carried out to allow vessel to continue in service until new blades can be obtained.

Now done: Rotor of turbine and generator removed to shop. Turbine rotor tried in lathe for truth and found in order. All rotor blades cleaned and examined, damaged shrouding on 6th, 7th, 8th, and 9th stage blades faired and re-riveted, rotor rebalanced. Generator rotor examined, cleaned and rebalanced. Propulsion spider examined and found to continue efficient. Blades and diaphragms in turbine casings cleaned and examined. Turbine and generator rotors refitted in place, rotor bearings remetalled and aligned. Rotor pedestal bearing re-aligned and new bolts fitted. Generator and fittings megger tested.

On completion of repairs, turbine and generator tried under full working conditions at various speeds, with satisfactory results.

It is recommended that the turbine rotor blading be again examined and renewed as necessary before the end of September, 1949 (4 months). Limit letter and Interim Certificate issued, copies attached. The main body of the turbine rotor was found to be pitted, this in my opinion continues efficient, but the Owners' Superintendent is considering renewing the rotor and hub completely.

The following parts of the Auxiliary Machinery was opened up for survey and examined.

After turbo feed pump and forward sanitary pump. Electric motor for sanitary pump and for atmospheric, drain tank examined and megger tested.

Port and Centre forced draught fans and motor completely opened up and motor and starters megger tested.

The machinery of this vessel as now seen is in good and safe working condition, and it is recommended that the present record of "Class Pending" be retained in the Register Book, subject to the blading of the main generator turbine rotor being renewed as necessary and again examined before the end of September, 1949, (4 months limit).