

Ruy Barboza

S/S "CAXIAS" ex "BAHIA LAURA"

This vessel built in 1913 by Bremer Vulcan, Vegesack, was originally classed with the Germanischer Lloyd and is now at Hamburg, undergoing survey with a view to classification with this Society.

A report on the survey of the machinery and plans of the boilers, shafting and pumping arrangements have been forwarded for consideration.

With steam reciprocating engines having cylinders 616 m/m, 1010 m/m and 1680 m/m diameter, by 1200 m/m stroke, working pressure 14 Kg. per cm², diameter of propeller 5400 m/m and screw shaft without liners, the sizes of the shafting as shewn on the plan, viz:- crank 344, thrust 344 and intermediate shaft 325 m/m diameter meet the requirements of the Rules, but that of the screw shaft, viz:- 370 m/m diameter, is slightly below the Rule size of 384 m/m, but in this instance it might be accepted.

The scantlings of the boilers as shewn on plan meet the requirements of the Rules, in force at the time the boilers were constructed, for the original working pressure of 14 Kg. per cm², with the exception of the furnaces, the thickness of which, owing to the low minimum tensile strength of the material is slightly below the Rule size.

The pumping arrangements as shewn on plan are in accordance with the requirements of the Rules.

According to Hamburg report No.15481, it appears that the machinery survey has been held, with the exception of the examination of the M.P. and L.P. cylinders, pumps, condensers, and the valves, cocks, pipes and strainers of the pumping arrangements, and the adjustment of the safety valves.

IT IS SUBMITTED that provided the remaining parts of the engines be opened out and examined and be found in good order, the pumping arrangements be as shewn on plan and otherwise in

in accordance with the requirements of the Rules, and the safety valves of the boilers be adjusted, the machinery of this vessel might be accepted for the original working pressure of 14 Kg. per sq.cm. and a notation of LMC (with date) without the distinguishing mark *, be assigned.

Return plans.

[Handwritten initials]

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A.H.B. J.C.
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