

Triple Screw Steamer "CERAMIC".  
No.22498 in the Register Book.

Proposed Classification.  
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This vessel was built by Messrs. Harland & Wolff, Ltd. in 1913, to the requirements of the Board of Trade.

The main propelling machinery consists of 6 double ended Scotch boilers supplying steam at 215 lb. per square inch to two 4 cylinder triple expansion engines driving wing propellers and exhausting into a low pressure turbine with direct drive to a centre line propeller.

The cylinder dimensions and stroke of the reciprocating engines have been obtained from the Register Book and confirmed over the telephone by the Owners, who also stated that the maximum shaft horse power of the low pressure turbine on the trial trip was 4750 at 240 r.p.m., but that the average horse power in service was 3000 at 215 r.p.m.

The sizes of shafting, viz: crank  $15\frac{3}{4}$ ", thrust  $15\frac{3}{4}$ ", intermediate  $14\frac{3}{4}$ " and screw 16", for the reciprocating engines having cylinders  $26\frac{1}{2}$ ", 42",  $47\frac{1}{2}$ " and  $47\frac{1}{2}$ " diameter, by 51" stroke, working pressure 215 lb. per square inch, diameter of propeller 18' and screw shaft with continuous liner, meet the requirements of the Rules.

The sizes of the intermediate and screw shafts of the L.P. turbine, viz:  $10\frac{3}{8}$ " and  $11\frac{1}{2}$ " respectively, when calculated on the service shaft horse power, meet the requirements of the Rules.

The scantlings of the boilers as shown on the plan are in accordance with the Rules for the original working pressure of 215 lbs. per square inch.

The pumping arrangements as shown on the plans are in accordance with the Rules in force when the vessel was built.

IT IS SUBMITTED that, provided the working parts of the machinery be opened up, examined and found in good order, and the sizes be as shown on the plans, the boilers

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Proposed Classification of s.s. "CERAMIC".

be examined internally and externally, found in good and safe working condition and their scantlings be in accordance with the plan, the pumping arrangements be examined and found in satisfactory condition and in accordance with the plans, the machinery of this vessel might be accepted and a notation of LMC (with date), but without the distinguishing mark "+", assigned.

*[Handwritten signature]*

*J.R.B.*

*J. Mca*

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*sk 4/6*

3.6.36.

*Advise Glasgow Surveyors.*

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