

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

The following is a true Account of the Particulars of the Machinery and Boilers:—

ENGINES.—Here state description of Engines, whether Direct Acting or Geared; Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

The Engines are inverted direct acting compound fitted with Surface Condenser and have two Cylinders.

ENGINES, maker of *Talmer Shipbuilding*
 „ age of *new. & Iron Co. Ltd*
 „ last time taken out *—*
 „ present condition *—*
 Diameter of Cylinders *30 & 52*
 Length of stroke *33.*
 No. per minute of Engines *66.*
 „ of Screw *66*
 Estimated power *190 H.P. nom*
 Effective power *600 H.P. indic.*
 Diameter of Screw (~~Paddle~~ *Wheels*) *13.0*
 Pitch of Screw *15.0 increasing to 17.0*
 No. of Blades (~~Flute~~) *4.*
 Description of Screw (~~Flute~~) *Loose blades.*
 Holding down Bolts, size *2 1/2 diameter*
 „ present condition *new.*

Bilge Pumps, No. (*2*) and size *6 diam 7 1/2 stroke*
 Feed „ No. (*2*) and size *5 10*
 Spare gear, if usual quantity on board Vessel *yes.*
 Fuel, where stowed *In side bunkers in Engine & Boiler room.*
 „ space between Coal Bunkers and Boilers *15.*
 „ for what quantity is space provided *140 tons*
 Donkey Engine and Boiler *are provided*
 „ if fitted in Engine Room or on Deck *Donkey in Engine room Boiler on Deck*
 „ can pump be worked by hand *yes. A Ballast donkey is also*
 „ size of pump (*4*) and stroke *8* *key is also*
 „ is hose of sufficient length to reach every part of the Vessel *yes. provided and*
 No. () and continuation of hand pumps, if fitted in Engine Room *no. placed in Engine room.*

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from fore, or after end of Boiler, &c.

2 Cylindrical tubular Boilers, with 2 cylindrical furnaces in each and a cylindrical egg ended Superheater in Uptake at foot of Funnel. The Boilers are fired from their forward End.

BOILER, maker of *Talmer Shipbuilding & Iron*
 „ age of *new Co. Limited*
 „ when last taken out *—*
 „ present condition *—*
 „ working pressure *75 lbs.*
 No. of surface Blow off Cocks to each Boiler *one.*

Can each Boiler be used separately *yes.*
 What clear space between top of Boiler and woodwork *5.5*
 What clear space between Funnel and woodwork *10.*
 Are Engine and Boiler Keelsons well connected fore and aft *yes.*

SCREW SHAFT length *33 feet.* diameter *9 & 9 1/2.* Tunnel, thickness of plating *—* height *—*
 width *—* if water-tight door on Engine Bulkhead. *No tunnel. The space in which the screw shaft works forms part of Engine room as far aft as stern tube Bulkhead.*

Port *Newcastle* *22nd* day of *August* 18 *70*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *"Corinna."* belonging to *London* whereof *J. Dryden* is Master, *696.74* Tons Register, and *190* H.P. have been carefully inspected and examined by us at *Jarrow on Tyne* and we found the same, at this date, in good order and safe working condition.

For *Talmer Shipbuilding & Iron Co. Ltd.*

Marine Engineers.

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