

# 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.

*Geared, Compound, Twin Screw.*

ENGINES, maker of	<i>Martin Samuelson, Hull</i>	Bilge Pumps, No. ( <i>2</i> ) and size	<i>4 1/2" dia</i>
" age of	<i>6 years</i>	Feed " No. ( <i>2</i> ) and size	<i>4 1/2" dia</i>
" last time taken out	<i>Part taken out lately</i>	Spare gear, if usual quantity on board Vessel	<i>Yes</i>
" present condition	<i>New Cylinders &amp; Condenser</i>	Fuel, where stowed	<i>Cross &amp; Wing Bunkers</i>
Diameter of Cylinder	<i>High Press Cyl: 28" Low Press 50"</i>	" space between Coal Bunkers and Boilers	<i>12"</i>
Length of stroke	<i>2 feet</i>	" for what quantity is space provided	<i>40 Tons</i>
No. per minute of Engines	<i>62 1/2</i>	Donkey Engine and Boiler	<i>Yes</i>
" of Screw	<i>—</i>	" if Fitted in Engine Room or on Deck	<i>Boiler on Deck Donkey in</i>
Estimated power	<i>98 H.P.</i>	" can pump be worked by hand	<i>Yes (Sulphur)</i>
Effective power	<i>400</i>	" size of pump (Stroke and stroke)	<i>10"</i>
Diameter of Screw (or <del>Blade</del> )	<i>6 feet</i>	" is hose of sufficient length to reach every part of the Vessel	<i>Yes</i>
Pitch of Screws	<i>10 feet</i>	No. ( ) and condition of hand pumps, if fitted in Engine Room	<i>—</i>
No. of Blades (or Floats)	<i>4 blades on each</i>		
Description of Screw (or Floats)	<i>cast in halves</i>		
Holding down Bolts, size	<i>1 1/2" dia</i>		
" present condition	<i>good</i>		

BOILERS.—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 Round Tubular 2 Furnaces in each No Superheater  
Fired fore & aft ship—*

BOILERS, maker of	<i>Martin Samuelson, Hull</i>	Can each Boiler be used separately	<i>Yes</i>
" age of	<i>New</i>	What clear space between top of Boiler and woodwork	<i>18"</i>
" when last taken out	<i>—</i>	What clear space between Funnel and woodwork	<i>12"</i>
" present condition	<i>New</i>	Are Engine and Boiler Keelsons well connected fore and aft	<i>Yes</i>
" working pressure	<i>50 lbs per sq"</i>		
No. of surface Blow off Cocks to each Boiler	<i>1</i>		
SCREW SHAFT length	<i>about 40 ft</i>	Tunnel, thickness of plating	<i>1/4" height 4 feet</i>
width	<i>3' 6" if water-tight door on Engine Bulkhead</i>		<i>Yes</i>

Port *of Hull* 21<sup>st</sup> day of *May* 1870

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel "*Annie*" belonging to *Goole* whereof *—* is Master, *—* Tons Register, and *98* H.P. have been carefully inspected and examined by *me* at *Hull* and I have found the same, at this date, in good order and safe working condition.

*Martin Samuelson*  
*Hull*



Lloyd's Register  
Engineers  
Foundation