

13932 Iron S.S. Sumida Report No. 11021

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.

Engines Compound & Surface condensing and of the inverted cylinder direct acting description

ENGINES, maker of George Clark
age of New
last time taken out
present condition
Diameter of Cylinder 36 & 68
Length of stroke 42
No. per minute of Engines 55
of Screw 4-4
Estimated power 200
Effective power
Diameter of Screw (or Paddle Wheels) 14 ft
Pitch of Screw 19.6
No. of Blades (or Floats) 4
Description of Screw (or Floats) Expanding pitch
Holding down Bolts, size 1 1/2
present condition

Bilge Pumps, No. (2) and size 5" dia
Feed No. (2) and size 5" dia
Spare gear, if usual quantity on board Vessel Yes
Fuel, where stowed in bunkers
space between Coal Bunkers and Boilers 8 1/2
for what quantity is space provided 352 tons in all
Donkey Engine and Boiler
if fitted in Engine Room or on Deck Donkey Engine in Engine Room
can pump be worked by hand No
size of pump (4 1/2") and stroke 6"
is hose of sufficient length to reach every part of the Vessel Yes
No. ( ) and continuation of hand pumps, if fitted in Engine Room Hand pump 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.

Two Boilers of the multitubular description with two fires in each fired from fore end

BOILER, maker of George Clark
age of New
when last taken out
present condition
working pressure 70 lbs
No. of surface Blow off Cocks to each Boiler one surface & one blow cock to each Boiler
SCREW SHAFT length 94" 11 3/4 diameter 1 1/2 to 1 3/4 Tunnel thickness of plating 3/16 height 5.7
width 4.6 if water-tight door on Engine Bulkhead. Yes

Can each Boiler be used separately Yes
What clear space between top of Boiler and woodwork 3.2
What clear space between Funnel and woodwork 2.6
Are Engine and Boiler Keelsons well connected fore and aft Yes

Port Sunderland 19 day of Janr 1875

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Sumida" belonging to Tokei whereof Ramsey is Master, 896 Tons Register, and 200 H.P. have been carefully inspected and examined by me at Sunderland and found the same, at this date, in good order and safe working condition.

J. Penblach
J. Penblach
Marine Engineers.



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