

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.

Direct Acting Compound Surface Condensing Engines with 2 inverted Cylinders

ENGINES, maker of *A. & J. Inglis*
,, age of *New*
,, last time taken out
,, present condition *New*
Diameter of Cylinder *28 1/2" x 50"*
Length of stroke *2 ft 6 ins*
No. per minute of Engines *80*
,, of Screw *80*
Estimated power *110*
Effective power *550*
Diameter of Screw (or Paddle Wheel) *11.6*
Pitch of Screw *14" 9 ins*
No. of Blades (or Floats) *41*
Description of Screw (or Floats) *Common Blades hollow to base*
Holding down Bolts, size *1 in.*
,, present condition *New*

Bilge Pumps, No. (*2*) and size
Feed ,, No. (*2*) and size
Spare gear, if usual quantity on board Vessel *Yes*
Fuel, where stowed *Stuart Ships*
,, space between Coal Bunkers and Boilers
,, for what quantity is space provided *1462 cubic feet*
Donkey Engine and Boiler *Yes*
,, if fitted in Engine Room or on Deck *Engine Room*
,, can pump be worked by hand *No*
,, size of pump (*3 1/2*) and stroke *9 ins*
,, is hose of sufficient length to reach every part of the Vessel *Yes*
No. () and continuation of hand pumps, if fitted in Engine Room *one Double acting 3 1/2 x 9 ins.*

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.

One Cylindrical Tubular Boiler, with 3 furnaces fired from forward

BOILER, maker of *A. & J. Inglis*
,, age of *New*
,, when last taken out
,, present condition *New*
,, working pressure *65 lbs*
No. of surface Blow off Cocks to each Boiler *2*

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

SCREW SHAFT length *80 feet* diameter *8 3/4* Tunnel thickness of plating *4/16 & 5/16* height *4 feet*
width *3 ft 9 ins* if water-tight door on Engine Bulkhead. *Yes*

Port of *Glasgow* 15th day of *September* 1875.
We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Tauraro* belonging to *Glasgow* whereof *228.32* Tons is Master, *110* H.P. have been carefully inspected and examined by *us* at *Glasgow* and *we* found the same, at this date, in good order and safe working condition.

W. M. Welsh
J. A. & J. Inglis
Marine Engineers.