

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 <i>A & J Inglis</i>	Bilge Pumps, No. (<i>2</i>) and size
„ age of <i>New</i>	Feed „ No. (<i>2</i>) and size
„ last time taken out	Spare gear, if usual quantity on board Vessel <i>Yes</i>
„ present condition <i>New</i>	Fuel, where stowed <i>Stuart Ships</i>
Diameter of Cylinder <i>28 1/2" x 50"</i>	„ space between Coal Bunkers and Boilers
Length of stroke <i>2 ft 6 ins</i>	„ for what quantity is space provided <i>1462 cubic feet</i>
No. per minute of Engines <i>80</i>	Donkey Engine and Boiler <i>Yes</i>
„ of Screw <i>80</i>	„ if fitted in Engine Room or on Deck <i>Engine Room</i>
Estimated power <i>110</i>	„ can pump be worked by hand <i>No</i>
Effective power <i>550</i>	„ size of pump (<i>3 1/2</i>) and stroke <i>9 ins</i>
Diameter of Screw (or Paddle Wheel) <i>11.6</i>	„ is hose of sufficient length to reach every part of the Vessel <i>Yes</i>
Pitch of Screw <i>14" 9 ins</i>	No. () and continuation of hand pumps, if fitted in Engine Room <i>one double acting 3 1/2 x 9 ins</i>
No. of Blades (or Floats) <i>41</i>	
Description of Screw (or Floats) <i>Common blades hollow to base</i>	
Holding down Bolts, size <i>1 in</i>	
„ present condition <i>New</i>	

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 <i>A & J Inglis</i>	Can each Boiler be used separately
„ age of <i>New</i>	What clear space between top of Boiler and woodwork
„ when last taken out	What clear space between Funnel and woodwork
„ present condition <i>New</i>	Are Engine and Boiler Keelsons well connected fore and aft <i>Yes</i>
„ working pressure <i>65 lbs</i>	
No. of surface Blow off Cocks to each Boiler <i>2</i>	
SCREW SHAFT length <i>80 feet</i> diameter <i>8 3/4</i> Tunnel thickness of plating <i>4/16 & 5/16</i> height <i>4 feet</i>	
width <i>3 1/4 9 ins</i> if water-tight door on Engine Bulkhead <i>Yes</i>	

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 *Sauron* belonging to *Glasgow* whereof *228.52* 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.