

Report No 2972

# 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.

*Compound, Direct Acting, Inverted Cylinders,  
& Surface Condensing Engines, No. of Cylinders Two.*

ENGINES, maker of *Thos Richardson & Sons*  
 age of  
 last time taken out  
 present condition *new*  
 Diameter of Cylinders *24" & 50"*  
 Length of stroke *33"*  
 No. per minute of Engines *40 (seventy)*  
 of Screw *40 (seventy)*  
 Estimated power *98*  
 Effective power *450*  
 Diameter of Screw (or Paddle Wheels) *11" 6"*  
 Pitch of Screw *15" 9"*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats) *Ordinary Screw*  
 Holding down Bolts, size *1 1/4"*  
 present condition *new*

Bilge Pumps, No. (*Two*) and size *6" diam & 6" stroke*  
 Feed, No. (*"*) and size *3" " & 2 1/2"*  
 Spare gear, if usual quantity on board Vessel *yes*  
 Fuel, where stowed *Side Bunkers*  
 space between Coal Bunkers and Boilers  
 for what quantity is space provided *13 1/2 tons*  
 Donkey Engine and Boiler *on Deck*  
 if fitted in Engine Room or on Deck *In Engine Room*  
 can pump be worked by hand *No, A Separate Hand Pump*  
 size of pump (*1 1/2"*) and stroke *9"* *Double Acting*  
 is hose of sufficient length to reach every part of the Vessel *yes*  
 No. (*one*) and continuation of hand pumps, if fitted in Engine Room *Hand Pump fitted in Engine Room 4 3/4" diam & 10" stroke*

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.

*Cylindrical Boiler, Tubular, Four Furnaces,  
No Superheater & Fired Fore & Aft.*

BOILER, maker of *Thos Richardson & Sons*  
 age of  
 when last taken out  
 present condition *new*  
 working pressure *65 lbs per sq inch*  
 No. of surface Blow off Cocks to each Boiler *One Surface & one Bottom*  
 SCREW SHAFT length *84" 9"* diameter *8" & 8 1/2"* Tunnel, thickness of plating *1/4" & 3/8"* height *4" 6"*  
 width *3" 9"* if water-tight door on Engine Bulkhead. *yes.*

Can each Boiler be used separately *Single Boiler*  
 What clear space between top of Boiler and woodwork *4" 9"*  
 What clear space between Funnel and woodwork *1" 6"*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes.*

Port *West Hartlepool* 3<sup>rd</sup> day of *July* 18*71*

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or ~~Wood~~) Screw (or ~~Paddle~~) Steam Vessel "*Farnley Hall*" belonging to *Robert Irvine Esq* whereof *Edward P. Fisher* is Master, *684 tons* Register, and *98* H.P. have been carefully inspected and examined by *Us* at *West Hartlepool* and *We* found the same, at this date, in good order and safe working condition.

*L. Richardson & Sons*  
*for Chas Smith*  
 Marine Engineers.

IRON 504-0069