

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *2 Cylinde Compound Inverted S.E.*
 Made by *Messrs Palmers Ltd Limited*
 When *May* 18*78* At *Lancaster*
 Diameter of cylinder *48" x 25"* Length of stroke *33"*
 No. of revolutions per minute *75*
 Point of cut off *3/8*
 Diameter of screw shaft *9"*
 Diameter of crank shaft journals *9" crank pins 9 1/2"*
 Diameter of screw, or of paddle wheel *10" 8"*
 Pitch of screw *15" 0"*
 No. of blades, *(4)* Total surface *38 sq. ft.*
 No. of bilge pumps *(2)* and sizes *4" dia, 15" stroke.*
 Do they pump from each compartment *Eng. room left well & fore hold*

Are all the bilge suction pipes fitted with roses *Yes & small pipes*
 No. of feed pumps *(2)* and sizes *4" dia, 15" stroke.*
 What gauges are there attached to the engines and boilers ... *1 Steam, 1 Stroke, 1 Engine Room, 1 Vacuum gauge*
 Description and size of Donkey Pumps ... *Boiler 4" dia, 8" stroke D.A. Ballast 8" dia, 12" stroke D.A.*
 Where do they pump from ... *Boiler from sea, 100 ft. well and same as bilge pumps. Ballast from sea, 100 ft. well and same as bilge pumps.*
 No. of bilge injections *(1)* and sizes *4" dia*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *No*
 Can it be worked by the main engines *Small donkey used*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes.*

MAIN BOILERS.

Number *one* Description *Cylindrical Tubular*
 Made by *Messrs Palmers Ltd Limited*
 When *May* 18*78* At *Lancaster*
 Working pressure *75 lbs*
 Tested by hydraulic pressure to *150 lbs*, Date *26. 3. 78*
 Description of super-heating apparatus *None Steam receiver*
 Can each boiler be worked separately *one Boiler*

Can the super-heater be shut off and the boilers worked separately *No*
 Description and area of safety valves on each boiler *2 Spring valves of Palmers, 4 1/2" dia = 15.9 each*
 No. of square feet of fire-grate surface in each boiler *47 sq. ft.*
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *all except rose in fore hold*

DONKEY BOILER.

Description *Tubular cylindrical cross tubes*
 Where fixed *Upper Deck*
 Working pressure *50 lbs per sq. inch*
Messrs Clarke Chapman & Co. Ltd

Tested by hydraulic pressure to *100 lbs reported*, Date *8/3/78*
 Description and area of safety valves *1 dead weight = 7 sq. inches*
 No. of square feet of fire grate *14 sq. ft.*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes*
 Are they Kingston valves or common cocks ... *2 Stop Valves rest are common Cocks*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Yes*
 Are the discharge pipes above or below the deep water line *Above*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *None*
 How are they protected *Yes*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *March 1878*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Fitted with a sluice door & appears water tight*
Safety valves raised 4 1/2 lbs
accumulation - 4 1/2 lbs

Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood)

Screw (or Paddle) Steam Vessel *New Pelton* owned by *Messrs J. F. Fennell & Son*
 of the Port of *Lancaster* of *525.33* Tons Register, and *99* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Lancaster*
 and found to be at this date, viz., *May 3rd* 18*78* in good order and safe working condition.

Amount of Fee for Survey ... £ *5-0-0* Paid by *Subsistence*
 (Travelling Expenses, if any, £ *0-5-0*)

Engineer Surveyor to Lloyd's Register of Shipping.

Small list of space between Boilers & Engines & Masts & Tides under Sea in satisfactory

Report (if any) on Hull of Vessel. No. 1397

20995 Iron

See 23/5/78

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It is submitted that this vessel
is eligible to have a Machinery
certificate granted and
Lloyd's M.C. recorded

M 24/5/78



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