

REPORT ON MACHINERY.

3637

Port of *Dundee*

Received at London Office **11 SEP. 91**

No. in Survey held at *Dundee* Date, first Survey *Dec 12th 1890* Last Survey *9th Sept. 1891*
 Reg. Book. *S. S. Peregrine* (Number of Visits *24*)
 on the *S. S. Peregrine* Tons *1659*
 Genl *Wills* Built at *Dundee* By whom built *W B Thompson & Co Ltd* When built *1891*
 Lines made at *Dundee* By whom made *W B Thompson & Co Ltd* when made *1891*
 Moulders made at *Dundee* By whom made *W B Thompson & Co Ltd* when made *1891*
 Registered Horse Power *450* Owners *General Steam Navigation Co Port belonging to London*

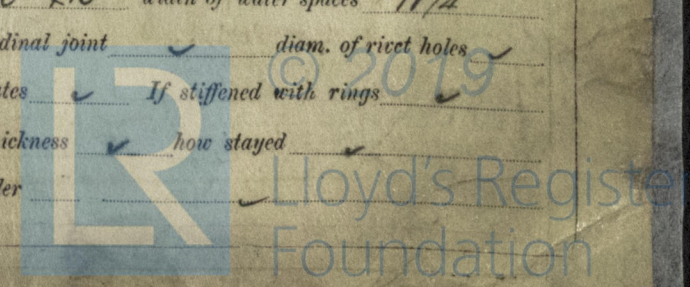
ENGINES, &c.—

Description of Engines *Triple Expansion - surface condensing*
 Diameter of Cylinders *30 - 47 - 75* Length of Stroke *48* No. of Rev. per minute _____ Point of Cut off, High Pressure *29"* Low Pressure *26"*
 Diameter of Screw shaft *15 1/4* Diam. of Tunnel shaft *14 3/4* Diam. of Crank shaft journals *15 1/4* Diam. of Crank pin *15 1/4* size of Crank webs *28 x 10"*
 Diameter of screw *14' 6"* Pitch of screw *21' 6"* No. of blades *4* state whether moveable *no* total surface *760' 88"*
 No. of Feed pumps *2* diameter of ditto *3 1/4"* Stroke *36"* Can one be overhauled while the other is at work *yes*
 No. of Bilge pumps *2* diameter of ditto *3 3/4"* Stroke *36"* Can one be overhauled while the other is at work *yes*
 Where do they pump from *All bilges & discharge overboard*
 No. of Donkey Engines *3* *4* *6* *8* *10* Size of Pumps *7-4x8; 8-8x10; 5-3x4* Where do they pump from *Ballast dky from all tanks & bilges sea-dis to condenser & overboard; 4" dky from all tanks, bilges & sea to boilers, overboard-deck, sanitary*
 Are all the bilge suction pipes fitted with roses *yes* Are the roses always accessible *yes* Are the sluices on Engine room bulkheads always accessible _____
 No. of bilge injections *1* and sizes *7 1/2"* Are they connected to condenser, or to circulating pump *circulating pump*
 How are the pumps worked *by levers from L-P Eng*
 Are all connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *both*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *yes* Are the discharge pipes above or below the deep water line *above*
 Are they each fitted with a discharge valve always accessible on the plating of the vessel *yes* Are the blow off cocks fitted with a spigot and brass covering plate *yes*
 What pipes are carried through the bunkers *Bilge, ballast & sanitary* How are they protected *wood casings*
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times *yes*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges *yes*
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock *never*
 Is the screw shaft tunnel watertight *yes* and fitted with a sluice door *yes* worked from *main deck*

BOILERS, &c.—

Number of Boilers *2* Description *Circular Multitubular* Whether Steel or Iron *Steel (a)*
 Working Pressure *165 lbs* Tested by hydraulic pressure to *330 lbs* Date of test *15/4/91*
 Description of superheating apparatus or steam chest _____
 Can each boiler be worked separately *yes* Can the superheater be shut off and the boiler worked separately _____
 No. of square feet of fire grate surface in each boiler *950* Description of safety valves *spring* No. to each boiler *2*
 Area of each valve *12.5* Are they fitted with easing gear *yes* No. of safety valves to superheater _____ area of each valve _____
 Are they fitted with easing gear _____ Smallest distance between boilers and bunkers or woodwork *9" air plate fitted* Diameter of boilers *14' 3"*
 Length of boilers *19' 0"* description of riveting of shell long. seams *double butts 2 1/2"* circum. seams *double riv lap* Thickness of shell plates *1 3/16"*
 Diameter of rivet holes *1 7/16"* whether punched or drilled *drilled* pitch of rivets *8.42"* Lap of plating *19"*
 Percentage of strength of longitudinal joint *84.9* working pressure of shell by rules *169* size of manholes in shell *17x13"*
 Diameter of compensating rings *6 1/2" x 1 1/4"* No. of Furnaces in each boiler *6*
 Inside diameter *3' 4 1/16"* length, top *7' 8"* bottom *7' 11"* thickness of plates *1 3/32"* description of joint *welded* if rings are fitted *Parvis*
 Greatest length between rings *9'* working pressure of furnace by the rules *175* combustion chamber plating, thickness, sides *9/16"* back _____ top *9/16"*
 Pitch of stays to ditto, sides *7 1/2"* back _____ top *10"* If stays are fitted with nuts or riveted heads *nuts* working pressure of plating by rules *168* Diameter of stays at smallest part *1.49* working pressure of ditto by rules *187* end plates in steam space, thickness *1 1/32"*
 Pitch of stays to ditto *16" x 15"* how stays are secured *nuts-double* working pressure by rules *187* diameter of stays at smallest part *2 13/16"* working pressure by rules *174* Front plates at bottom, thickness *1 3/16"* Back plates, thickness _____
 Greatest pitch of stays *4"* working pressure by rules _____ Diameter of tubes *3 3/4"* pitch of tubes *5" x 5"* thickness of tube plates, front *7/8"* back *1 3/16"* how stayed *seamed tubes* pitch of stays *10" x 10"* width of water spaces *11 1/4"*
 Diameter of Superheater or Steam chest _____ length _____ thickness of plates _____ description of longitudinal joint _____ diam. of rivet holes _____
 Pitch of rivets _____ working pressure of shell by rules _____ diameter of flue _____ thickness of plates _____ If stiffened with rings _____
 Distance between rings _____ working pressure by rules _____ end plates of superheater, or steam chest; thickness _____ how stayed _____
 Superheater or steam chest; how connected to boiler _____

DUN 118-0142



DONKEY BOILER— Description *Vertical cross tube*
 Made at *Bundee* by whom made *W B Thompson & Co Ltd* when made *1891* where fixed *Stokehold*
 Working pressure *80* tested by hydraulic pressure to *160* No. of Certificate *603* fire grate area *14.75* description of safety
 valves *Spring* No. of safety valves *2* area of each *3.9* if fitted with easing gear *yes* if steam from main boilers *no*
 enter the donkey boiler *no* diameter of donkey boiler *5'-3"* length *12'-6"* description of riveting *double lap*
 Thickness of shell plates *1/2"* diameter of rivet holes *7/8"* whether punched or drilled *drilled* pitch of rivets *3/4"* lap of plating *4/4"*
 per centage of strength of joint *62%* thickness of crown plates *3/4"* stayed by *8 solid stays*
 Diameter of furnace, top *3'-11"* bottom *4'-4"* length of furnace *7'-1"* thickness of plates *9/16"* description of joint *single riv lap*
 Thickness of furnace crown plates *9/16"* stayed by *8 solid stays* working pressure of shell by rules *107*
 Working pressure of furnace by rules *93* diameter of uptake *14"* thickness of plates *5/8"* thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:— *Propeller shaft; propeller; 1 pair main brasses; 1 pair*
top end & r brasses; 1 pair bottom end do; eccentric strap - Air pump bucket rod & gudgeon
2 main bearing bolts & nuts - 2 top & 2 bottom end & r bolts - 1 set shaft coupling bolts, 1 set
piston rings for each cylinder; 1 set each feed, bilge, ballast donkey, & feed donkey valves & c
1 set boiler check valves & seats - 2 safety
 The foregoing is a correct description,
W B Thompson & Co Limited Manufacturer.
A. W. Henderson

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery of this vessel*
has been built under special survey and in accordance with
the enclosed approved drawings.
The steel has been tested by the Society's surveyors at the steel works
& the test certificates are annexed
The safety valves of main & donkey boilers were set at the working
pressure of 165 lbs & 80 lbs respectively and engines seen running
under steam with satisfactory result.
Materials & workmanship are good

$$\frac{1}{2} \left\{ \frac{15^2 \times \sqrt{48}}{100} + \frac{6994}{15} \right\} = 428 \text{ NHP}$$

The machinery is in good & safe working condition and the
vessel is in our opinion eligible to be classed in the Register
Book with the notification +LMC 9.91

It is submitted that this vessel is eligible
to have +LMC 9.91 recorded.
W.B.
12-9-91

The amount of Entry Fee .. £ 3 : - : - received by me,

Special £ 41 : 8 : -

Donkey Boiler Fee £ : : :

Certificate (if required) .. £ : : : 9th Sept. 1891

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute **FRI. 18 SEP 1891**

Harry Clarke & R. Heydell

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

FRI 25 SEP 1891

+LMC 9.91



Lloyd's Register
Foundation