

REPORT ON MACHINERY.

No. 17770

Port of *Hull*Received at London Office *THUR. 12 APL 1906*

No. in Survey held at *Selby Hull* Date, first Survey *Nov. 2/05* Last Survey *Apr. 3rd 1906*
 Reg. Book. *36* Suf. on the *Steel Sc K Earl Monmouth* (Number of Visits *26*) Tons { Gross *270*
 Master *Selby* Built at *Selby* By whom built *Messrs Bocheane Son* When built *1906*
 Engines made at } *Hull* By whom made } *Messrs Charles O Holmes & Co* when made } *1906*
 Boilers made at } *Hull* By whom made } *Charles O Holmes & Co* when made } *1906*
 Registered Horse Power *70* Owners *Earl Str Fishing Co. Ltd* Port belonging to *Grimby*
 Nom. Horse Power as per Section 28 *70* Is Refrigerating Machinery fitted *No* Is Electric Light fitted *No*

ENGINES, &c.—Description of Engines *Triple Expansion* No. of Cylinders *3* No. of Cranks *3*
 Dia. of Cylinders *12 1/2 - 22 - 35* Length of Stroke *24* Revs. per minute *110* Dia. of Screw shaft *7 1/8* as per rule *7 1/8* Material of screw shaft *Steel*
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tight
 in the propeller boss *Yes* If the liner is in more than one length are the joints burned *burned* If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *If two*
 liners are fitted, is the shaft lapped or protected between the liners *Yes* Length of stern bush *31*
 plain part as per rule *6 1/2* Dia. of Crank shaft journals as per rule *6 1/2* Dia. of Crank pin *7 1/8* Size of Crank webs *13 1/2 x 4 1/2* Dia. of thrust shaft under
 collars *7 1/8* Dia. of screw *8 - 7 1/2* Pitch of screw *11 - 0* No. of blades *4* State whether moveable *No* Total surface *28*
 No. of Feed pumps *1* Diameter of ditto *2 1/8* Stroke *24* Can one be overhauled while the other is at work
 No. of Bilge pumps *1* Diameter of ditto *2 1/8* Stroke *24* Can one be overhauled while the other is at work
 No. of Donkey Engines *One* Sizes of Pumps *2 1/4 x 5* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *two 2"* In Holds, &c. *One each 2", to each, the space*
bunker, main fish room, space bunker under floor, main fish room under floor, fore hold and engine room, with discharge on deck.
 No. of bilge injections *3* Connected to condenser, or to circulating pump *Is a separate donkey suction fitted in Engine room & size 2*
 Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *0*
 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 *hold suction* How are they protected *wood casing*
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock *before launching* Is the screw shaft tunnel watertight *None*
 Is it fitted with a watertight door *worked from*

BOILERS, &c.— (Letter for record *5*) Total Heating Surface of Boilers *1115* Is forced draft fitted *No*
 No. and Description of Boilers *One Cyl. Multi* Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs*
 Date of test *5.3.06* Can each boiler be worked separately *Area of fire grate in each boiler 32.8* No. and Description of safety valves to
 each boiler *Two Spring* Area of each valve *3.98* Pressure to which they are adjusted *205 lbs* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *8"* Int. dia. of boilers *13 - 0* Length *10 - 0* Material of shell plates *Steel*
 Thickness *1 1/2* Range of tensile strength *29.32* Are they welded or flanged *Descrip. of riveting: cir. seams L.D. long. seams D.B.S.R.*
 Diameter of rivet holes in long. seams *1 1/2* Pitch of rivets *7 1/2* Lap of plates or width of butt straps *17 1/2*
 Per centages of strength of longitudinal joint *92* Working pressure of shell by rules *206 lbs* Size of manhole in shell *16" x 12"*
 Size of compensating ring *7" x 1 1/2* No. and Description of Furnaces in each boiler *Two Holmes* Material *Steel* Outside diameter *43"*
 Length of plain part *top 23 bottom 32* Thickness of plates *bottom 32* Description of longitudinal joint *Welded* No. of strengthening rings *4 corr.*
 Working pressure of furnace by the rules *208 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *3/4"* Back *3/2* Top *3/2* Bottom *3/4"*
 Pitch of stays to ditto: Sides *9" x 8 1/2"* Back *9" x 9"* Top *8" x 8 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *220 lbs*
 Material of stays *Steel* Diameter at smallest part *margin 1 1/4"* Area supported by each stay *105* Working pressure by rules *205 lbs* End plates in steam space:
 Material *Steel* Thickness *1 1/2* Pitch of stays *16 x 19* How are stays secured *margin 1 1/4"* Working pressure by rules *213 lbs* Material of stays *Steel*
 Diameter at smallest part *3 3/2* Area supported by each stay *304* Working pressure by rules *246 lbs* Material of Front plates at bottom *Steel*
 Thickness *1"* Material of Lower back plate *Steel* Thickness *1"* Greatest pitch of stays *16"* Working pressure of plate by rules
 Diameter of tubes *3 1/4"* Pitch of tubes *5" x 4 3/4"* Material of tube plates *Steel* Thickness: Front *1"* Back *3/2* Mean pitch of stays *9 3/4"*
 Pitch across wide water spaces *15"* Working pressures by rules *200 lbs* Girders to Chamber tops: Material *Iron* Depth and
 thickness of girder at centre *9" x 1 3/4"* Length as per rule *2 - 7 3/2* Distance apart *8"* Number and pitch of Stays in each *3 - 8 1/2"*
 Working pressure by rules *222 lbs* Superheater or Steam chest; how connected to boiler *Can the superheater be shut off and the boiler worked*
 separately *Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet*
 holes *Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness*
 If stiffened with rings *Distance between rings Working pressure by rules End plates: Thickness How stayed*
 Working pressure of end plates *Area of safety valves to superheater Are they fitted with easing gear*

DONKEY BOILER—

No. Description

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler

Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength

Descrip. of riveting long seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Plates Thickness of shell crown plates Radius of do. No. of Stays to do.

Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint

Thickness of furnace crown plates Stayed by Working pressure of shell by rules

Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:— Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air, circulating feed bilge pump valves, and a quantity of assorted bolts nuts, etc.

The foregoing is a correct description,

Charles Holmes Manufacturer.

Dates of Survey while building

During progress of work in shops— 1905:— Nov. 2, 29, Dec. 6, 11, 13, 20. 1906:— Jan. 2, 11, 19, 22, 26, 30, 31. Feb. 7, 15, 21, 23. Mar. 5, 6, 14

During erection on board vessel— Mar. 22, 24, 28, 30, 31 Apr. 3.

Total No. of visits 26

Is the approved plan of main boiler forwarded herewith Yes

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery and boiler of this vessel have been inspected throughout construction in accordance with the Society's Rules. The materials and workmanship are good. The boiler tested by hydraulic pressure, and with the engines placed on board and tested under steam, they are now in good order and safe working condition and respectfully submitted as being eligible in our opinion to be classed with the notation of **L.M.C.4.06** in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD **L.M.C.4.06**

12.4.06

The amount of Entry Fee. £ 1 : 10 : 10

Special £ 10 : 10 : 10

Donkey Boiler Fee £ - : - : -

Travelling Expenses (if any) £ - : 8 : 2

When applied for,

11/4/1906

When received,

30/4/1906

James Barclay & Kerr
Engineer Surveyors to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

WED. 18 APR 1906

Assigned

+ L.M.C. 4.06

MACHINERY CERTIFICATE
WRITTEN



© 2020

Lloyd's Register
Foundation