

REPORT ON MACHINERY.

No. 16811

Port of Hull

Received at London Office

19

No. in Survey held at Hull Date, first Survey Dec. 9/04 Last Survey 16th May 1905
 Reg. Book. 276 on the Shel Se K. Warner Priory (Number of Visits 53) Tons { Gross 299
 Net 113
 Master Hull Built at Hull By whom built Charles S. & Co Ltd When built 1905
 Engines made at Hull By whom made Messrs Charles D. Holmes & Co when made 1905
 Boilers made at Hull By whom made Messrs Charles D. Holmes & Co when made 1905
 Registered Horse Power Hull S. & Co Ltd Port belonging to Hull
 Nom. Horse Power as per Section 28 85 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13" - 22" - 36" Length of Stroke 27" Revs. per minute 106 Dia. of Screw shaft 7.84" Material of Iron
 as fitted 8.4" screw shaft)
 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 38"
 Dia. of plain shaft as per rule 7.07" Dia. of Crank shaft journals as per rule 7.42" Dia. of Crank pin 7.4" Size of Crank webs 14.4" x 5.4" Dia. of thrust shaft under
 collars 7.4" as fitted 7.2" as fitted 7.4" Dia. of screw 9'-6" Pitch of screw 11'-6" x 12'-6" No. of blades 4 State whether moveable No Total surface 30 ft
 No. of Feed pumps Two Diameter of ditto 2.2" Stroke 18" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps Two Diameter of ditto 2.2" Stroke 18" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" In Holds, &c. One 2" to fish hold, +
four hold, and ejector suction from Eng. Room bilge holds.
 No. of bilge injections 1 sizes 3.2 Connected to condenser, or to circulating pump pumps a separate donkey suction fitted in Engine room & size Yes 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 Yes
 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 16.5.05 Is the screw shaft tunnel watertight None
 Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 8) Total Heating Surface of Boilers 1420 ft 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 23.3.05 Can each boiler be worked separately Area of fire grate in each boiler 45 ft No. and Description of safety valves to
 each boiler Two Spring Area of each valve 4.9 ft 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" Mean dia. of boilers 13'-2 3/8" Length 10'-7 7/8" Material of shell plates Steel
 Thickness 1 1/16" Range of tensile strength 29.32 Are they welded or flanged Descrip. of riveting: cir. seams L. D. long. seams D. B. S. & P.
 Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 7 9/16" Lap of plates or width of butt straps 17 1/2"
 Per centages of strength of longitudinal joint rivets 92 Working pressure of shell by rules 207 lbs Size of manhole in shell 16" x 12"
 plate 84.3 Size of compensating ring 9" x 1 3/16" No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 37 1/2"
 Length of plain part top 5'-11" Thickness of plates crown 3/4" Description of longitudinal joint welded No. of strengthening rings 0
 bottom bottom Working pressure of furnace by the rules 227 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 1/16"
 Pitch of stays to ditto: Sides 7 1/2" Back 4 1/2" Top 4 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 290 lbs
 Material of stays Steel Diameter at smallest part 1 7/8" Area supported by each stay 56.25 ft Working pressure by rules 331 lbs End plates in steam space:
 Material Steel Thickness 1 1/16" Pitch of stays 16" x 16" How are stays secured D. nuts Working pressure by rules 208 lbs Material of stays Steel
 Diameter at smallest part 2 1/16" Area supported by each stay 256 ft Working pressure by rules 242 lbs Material of Front plates at bottom Steel
 Thickness 1 5/16" Material of Lower back plate Steel Thickness 1 5/16" Greatest pitch of stays 15" Working pressure of plate by rules 216 lbs
 Diameter of tubes 3 1/4" Pitch of tubes 4 5/8" Material of tube plates Steel Thickness: Front 1 5/16" Back 1 5/16" Mean pitch of stays 9 1/4"
 Pitch across wide water spaces 14" Working pressures by rules 200 lbs Girders to Chamber tops: Material Iron Depth and
 thickness of girder at centre 10 1/2" x 2" Length as per rule 36" Distance apart 8" x 9" Number and pitch of Stays in each 3 - 7 1/2"
 Working pressure by rules 214 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 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 bottom end connecting rod bolts, nuts, two main bearing bolts nuts, one set coupling bolts nuts, one set each air circulating (Centrifugal) feed bilge pump valves, a quantity of assorted bolts nuts

The foregoing is a correct description,

Charles Holmes Manufacturer.

Dates During progress of work in shops— 1904: Dec. 9. 16. 20 1905: Jan. 5. 11. 16. 18. 19. 20. 25. 26. Feb. 1. 2. 3. 6. 7. 13. 14. 15. 16. 17. 22. 23
of Survey During erection on Feb. 27 Mar. 1. 2. 3. 4. 6. 7. 9. 13. 17. 18. 22. 23. 28. 31 Apr. 1. 3. 5. 11. 13. 14. 18. 19. 26. 27. May 1. 2. 8.
while board vessel - - May 12. 16.
building Total No. of visits 53
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 my opinion to be classed with the notification of £ L. M. 6 5 05 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD H.L.M.C. 5.05

Imd.
23.5.05
23.5.05

The amount of Entry Fee.. £ 1 : - : -
Special .. £ 12 : 15 : -
Donkey Boiler Fee .. £ - : - : -
Travelling Expenses (if any) £ - : - : -
When applied for, 22/5/1905
When received, 31.5.1905

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

Committee's Minute

FRI. 26 MAY 1905

Assigned

+ hmc 5.05

MACHINERY CERTIFICATE
WRITTEN.



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Foundation