

Port of Hull

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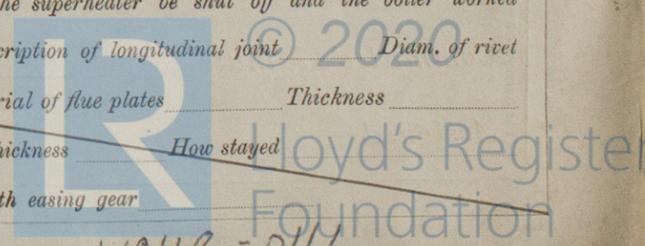
No. in Survey held at Hull Date, first Survey Sep 15/04 Last Survey Jan 12th 1905
Reg. Book. 26 Supp. on the Se K Drax
Master West Built at Selby By whom built Messrs Cochrane Sons When built 1905
Engines made at Hull By whom made Messrs Charles D. Holmes & Co when made 1905
Boilers made at Hull By whom made Messrs Charles D. Holmes & Co when made 1905
Registered Horse Power Owners J. H. Collier Port belonging to Hull
Nom. Horse Power as per Section 28 82 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines In Compound No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 13 1/2 - 22 1/2 - 37 Length of Stroke 24 Revs. per minute 112 Dia. of Screw shaft as per rule 7.56 Material of Iron
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 Length of stern bush 36
Dia. of Tunnel shaft as per rule 6 3/8 Dia. of Crank shaft journals as per rule 7.2 Dia. of Crank pin 7 3/8 Size of Crank webs 14 1/2 - 4 1/2 Dia. of thrust shaft under
collars 7 3/8 Dia. of screw 9 0 Pitch of screw 11 - 6 No. of blades 4 State whether moveable No Total surface 29
No. of Feed pumps 1 Diameter of ditto 2 1/2 Stroke 14 1/4 Can one be overhauled while the other is at work
No. of Bilge pumps 1 Diameter of ditto 2 1/2 Stroke 14 1/4 Can one be overhauled while the other is at work
No. of Donkey Engines One Sizes of Pumps 3 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Two 2 In Holds, &c. One 2 to each fore hold
fore slush well, main hold, Ejector suction with discharge on deck
No. of bilge injections 1 sizes 3 Connected to condenser, or to circulating pump pump Is a separate donkey suction fitted in Engine room & size Yes. 3
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 No
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 casings
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 before launching Is the screw shaft tunnel watertight No
Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record 8) Total Heating Surface of Boilers 1330 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. 12. 04 Can each boiler be worked separately Area of fire grate in each boiler 36 No. and Description of safety valves to
each boiler Two Spring Area of each valve 3.98 Pressure to which they are adjusted 202 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 6 Mean dia. of boilers 13-0 Length 10-6 Material of shell plates Steel
Thickness 1/16 Range of tensile strength 29-32 Are they welded or flanged Descrip. of riveting: cir. seams L. D. R. long. seams O. B. S. I. R.
Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 7 Lap of plates or width of butt straps 17 1/2
Per centages of strength of longitudinal joint rivets 99 Working pressure of shell by rules 204 lbs Size of manhole in shell 16 x 12
Size of compensating ring 7 x 1 3/16 No. and Description of Furnaces in each boiler Two Holmes Material Steel Outside diameter 45
Length of plain part top Thickness of plates crown 7/16 Description of longitudinal joint Welded No. of strengthening rings Holmes Patent
Working pressure of furnace by the rules 210 lbs Combustion chamber plates: Material Steel Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 23/32
Pitch of stays to ditto: Sides 9 Back 9 1/2 - 8 1/2 Top 9 If stays are fitted with nuts or riveted heads 7 nuts Working pressure by rules 220 lbs
Material of stays Steel Diameter at smallest part 1 5/8 Area supported by each stay 81 Working pressure by rules 230 lbs End plates in steam space:
Material Steel Thickness 1 3/16 Pitch of stays 17 1/4 - 17 1/4 How are stays secured O. B. R. Working pressure by rules 212 lbs Material of stays Steel
Diameter at smallest part 3 Area supported by each stay 315 Working pressure by rules 222 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 208 lbs
Diameter of tubes 3 1/2 Pitch of tubes 4 5/8 Material of tube plates Steel Thickness: Front 1 5/16 Back 29/32 Mean pitch of stays 9 1/2
Pitch across wide water spaces 14 1/2 Working pressures by rules 200 lbs Girders to Chamber tops: Material Iron Depth and
thickness of girder at centre 10 1/2 - 2 Length as per rule 36 Distance apart 9 1/2 - 8 1/2 Number and pitch of Stays in each 3 - 9
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

If not, state whether, and when, one will be sent?
Is a Report also sent on the Hull of the Ship?
Yes

W948-0117



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 _____

Diap. 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. _____

Diap. 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, One set coupling bolts, one set each air circulating feed bilge pump valves, and a quantity of assorted bolts nuts etc.

The foregoing is a correct description,

Charles D. Holmes Manufacturer.

Dates of Survey while building } During progress of work in shops - - } 1904:— Sep 15, 17, 20, 22, 27, Oct 6, 20, 24, 26, Nov 1, 4, 7, 10, 17, 21, 22, 29, 30, Dec 1, 5.
 } During erection on board vessel - - } Dec 9, 12, 15, 16, 20, 21, 29 1905:— Jan 2, 3, 5, 7, 11, 12
 Total No. of visits 33

Is the approved plan of main boiler forwarded herewith Yes

“ “ “ donkey “ “ “

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery and boilers of this vessel have been inspected throughout construction in accordance with the Society's Rules. The materials and workmanship are good. The boilers 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.C. 1.05 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD L.M.C. 1.05

Wm. S.
23.1.05

Certificate (if required) to be sent to

The amount of Entry Fee. . . £ 1 : : :
 Special £ 12 : 6 : :
 Donkey Boiler Fee £ . : : :
 Travelling Expenses (if any) £ . : 8 : :
 TUES. 24 JAN. 1905

When applied for, 20/1/1905
 When received, 31/1/1905
James Barclay
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Assigned

+ L.M.C. 1.05

MACHINERY CERTIFICATE WRITTEN.



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