

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 Suff on the Steel Sc K Earl Monmouth (Number of Visits 26) Tons { Gross 270 Net 119
 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 Strm 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 as per rule 7.29 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 6.66 Dia. of Crank shaft journals as per rule 6.99 Dia. of Crank pin 7 1/2 Size of Crank webs 13 1/2 x 4 1/2 Dia. of thrust shaft under
 Dia. of Tunnel shaft as fitted 6 1/2 as fitted 7 1/8 collars 7 1/2 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 1/2 Stroke 24 Can one be overhauled while the other is at work
 No. of Bilge pumps 1 Diameter of ditto 2 1/2 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 spare
 bunker main fish room, spare 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 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 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. Mean dia. of boilers 13 - 0 Length 10 - 0 Material of shell plates Steel
 Thickness 1 3/16 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 3/16 Pitch of rivets 7 1/2 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 206 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 43"
 Length of plain part top 23 Thickness of plates crown 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 3/4" Area supported by each stay 105 Working pressure by rules 205 lbs End plates in steam space:
 Material Steel Thickness 1 3/16 Pitch of stays 16 x 19 How are stays secured margin 1 3/4" screwed into end plates Working pressure by rules 213 lbs Material of stays Steel
 Diameter at smallest part 3 3/32 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 29/32 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

In a Report also sent on the Hull of the Ship



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 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 27, 24, 28, 30, 31 Apr 3.

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**

W.S.
 12.4.06

The amount of Entry Fee... £ 1 : ~~10~~ :
 Special £ 10 : 10 :
 Donkey Boiler Fee £ - : - :
 Travelling Expenses (if any) £ - : 8 : 2

When applied for, 11/4/06
 When received, 30/4/06
James Barclay Kerr
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute WED. 18 APR 1906
 Assigned + Lmc 4.06

Certificate (if required) to be sent to Hull

