

REPORT ON MACHINERY.

No. 16517

Port of Hull

Received at London Office

THUR. 12 JAN 1905

No. in Survey held at Hull Date, first Survey Sep. 14th '04 Last Survey Jan 3rd 1905
 Reg. Book. 32 Supp on the Sc. K. Bassanio (Number of Visits 30)
 Master Beverley Built at Beverley By whom built Messrs. Cook, Welter & Gemmell Tons { Gross 270
 Engines made at Hull By whom made Messrs. Amos Smith Net 94 When built 1905
 Boilers made at Hull By whom made Messrs. Amos Smith when made 1905
 Registered Horse Power 80 Owners Hallgren's Steu. Fishing Co. Port belonging to Hull
 Nom. Horse Power as per Section 28 80 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Tri. Compound No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13" ~ 22" ~ 36" Length of Stroke 24" Revs. per minute 112 Dia. of Screw shaft 7.45 as per rule 7.45 Material of 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 One Length 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 plain
 Dia. of Plain shaft as per rule 6.78 Dia. of Crank shaft journals as per rule 7.5 Dia. of Crank pin 7.5 Length of stern bush 36"
 as fitted 4.5 as fitted 7.5 Size of Crank webs 12" x 4.5" Dia. of thrust shaft under
 collars 7.5 Dia. of screw 8" ~ 10" Pitch of screw 11" ~ 0" No. of blades 4 State whether moveable No Total surface 32 sq
 No. of Feed pumps One Diameter of ditto 2.5" Stroke 12" Can one be overhauled while the other is at work
 No. of Bilge pumps One Diameter of ditto 2.5" Stroke 12" Can one be overhauled while the other is at work
 No. of Donkey Engines Two Sizes of Pumps 5" x 5" x 5" & 6" x 3" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" In Stokehold In Holds, &c. One 2" in each Fore hold
Fish hold, Fore slush well, after slush well.
 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 None
 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 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 Boiler 1335 sq 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 24. 11. 04 Can each boiler be worked separately Area of fire grate in each boiler 36.6 sq No. and Description of safety valves to
 each boiler Two Spring Area of each valve 4.91 sq 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 7" Mean dia. of boilers 13" ~ 0" Length 10' ~ 6' Material of shell plates Steel
 Thickness 1.76" Range of tensile strength 28-32 Are they welded or flanged Descrip. of riveting: cir. seams Lap. 0.8 long. seams 0.8 S.P.
 Diameter of rivet holes in long. seams 1.76" Pitch of rivets 8" Lap of plates or width of butt straps 17.5"
 Per centages of strength of longitudinal joint 86.9 Working pressure of shell by rules 202 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring 40" x 30" x 1.76" No. and Description of Furnaces in each boiler Two Bightons Material Steel Outside diameter 3' ~ 9.5"
 Length of plain part top 7.5" bottom 7.5" Thickness of plates top 3.5" bottom 3.5" Description of longitudinal joint welded No. of strengthening rings Bightons
 Working pressure of furnace by the rules 276 lbs Combustion chamber plates: Material Steel Thickness: Sides 1.76" Back 1.76" Top 1.76" Bottom 1.76"
 Pitch of stays to ditto: Sides 8" Back 7.5" Top 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 255 lbs
 Material of stays Steel Diameter at smallest part 1.5" Area supported by each stay 60 sq Working pressure by rules 236 lbs End plates in steam space:
 Material Steel Thickness 1.5" Pitch of stays 17.5" x 16" How are stays secured 0.7 w. Working pressure by rules 213 lbs Material of stays Steel
 Diameter at smallest part 3.5" Area supported by each stay 280 sq Working pressure by rules 257 lbs Material of Front plates at bottom Steel
 Thickness 3.5" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 13.5" Working pressure of plate by rules 200 lbs
 Diameter of tubes 3.5" Pitch of tubes 5" Material of tube plates Steel Thickness: Front 3.5" Back 1.76" Mean pitch of stays 10"
 Pitch across wide water spaces 14" Working pressures by rules 208 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9.5" x 2" Length as per rule 36" Distance apart 8" Number and pitch of Stays in each 3 ~ 7.5"
 Working pressure by rules 206 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

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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, and main bearing bolts nuts. One set each coupling bolts nuts, sail circulating feed and bilge pump valves, and a quantity of bolts, nuts, etc.

The foregoing is a correct description,

Manufacturer. **FOR AMOS & SMITH**
W. S. Hyde

Dates During progress of work in shops— 1904:— Sep 14. 16. 26. 29. Oct 3. 17. 18. 21. 24. 25. 1905:— Jan 3. 1904:— Oct 26. Nov 2. 4. 9. 14. 15. 21. 24. 28

of Survey During erection on board vessel— Dec 1. 2. 6. 7. 14. 17. 19. 22. 28. 29 1905:— Jan 3.

while building Total No. of visits 30.

Is the approved plan of main boiler forwarded herewith Yes

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 boiler tested by hydraulic pressure, and with the engines placed on board, and tested under steam. They are now in good order 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

WMS
12.1.05
12.1.05

The amount of Entry Fee. . . £ 1 : . . . When applied for, 11/11 1905

Special . . . £ 12 : . . . 11/11 1905

Donkey Boiler Fee . . . £ . : . . . When received, 31/11 1905

Travelling Expenses (if any) £ . : 2 : . . . 31/11 1905

Committee's Minute

Assigned

FRI, JAN 13 1905

+ L.M.C. 1.05

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



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