

Port of HullReceived at London Office HULL 31 AUG 1905

No. in Survey held at Hull Date, first Survey Mar 14th Last Survey Aug 29th 1905
 Reg. Book. 14 Supp. on the Screw Steamer "Phoenix" (Number of Visits 35)
 Master Built at Hull By whom built Charles T.B. + E. C. Ld. Tons { Gross 3576
 Engines made at Hull By whom made Charles T.B. + E. C. Ld. when made 1905 Net 2285
 Boilers made at do By whom made do when made 1905
 Registered Horse Power Owners Hoyland + Co. Port belonging to London
 Nom. Horse Power as per Section 28 322 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 24, 39, 66 Length of Stroke 45 Revs. per minute 65 Dia. of Screw shaft as per rule 13.5 Material of Iron
as fitted 14 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 ✓ 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 5'-0"
 Dia. of Tunnel shaft as per rule 12.5 Dia. of Crank shaft journals as per rule 12.6 Dia. of Crank pin 13 Size of Crank webs 19x8½ Dia. of thrust shaft under
as fitted 12½ collars 13 Dia. of screw 16-6 Pitch of screw 16-6 No. of blades 4 State whether moveable No Total surface 88 sq. ft.
 No. of Feed pumps 2 Diameter of ditto 7x9½ Stroke 18 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 4½ Stroke 24 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 Sizes of Pumps 10x14x15 7x9½x18 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 3½" Strokehole two 2¾ + one 3½" In Holds, &c. No. 1, 2, + 3 holds two in each
3½" dia. No. 4 hold one 3½" dia. Tunnel one 3½" dia.
 No. of bilge injections 1 sizes 5½" Connected to condenser, or to circulating pump C.P. Is a separate donkey suction fitted in Engine room & size yes, 3½"
 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 ✓
 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 None How are they protected ✓
 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 launch Is the screw shaft tunnel watertight yes
 Is it fitted with a watertight door yes worked from E. R. Top platform.

BOILERS, &c.—(Letter for record (5)) Total Heating Surface of Boilers 5050 sq. ft. Is forced draft fitted No
 No. and Description of Boilers Two S.E. Cyl. Mult. Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs
 Date of test 18.8.05 Can each boiler be worked separately yes Area of fire grate in each boiler 66 sq. ft. No. and Description of safety valves to
 each boiler two direct spring Area of each valve 7" Pressure to which they are adjusted 180 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2'-3" dia. of boilers 16-6" Length 11-6" Material of shell plates Steel
 Thickness 1½" Range of tensile strength 28-32 Are they welded or flanged ✓ Descrip. of riveting: cir. seams B.R. Lap long. seams B.R. S. 5 Rivets
 Diameter of rivet holes in long. seams 1½" Pitch of rivets 9 15/16" Lap of plates or width of butt straps 1-9 3/4"
 Per centages of strength of longitudinal joint 88 Working pressure of shell by rules 204 lbs Size of manhole in shell 16x12"
plate 84-9
 Size of compensating ring 3-4x2-6x1½" No. and Description of Furnaces in each boiler Three Fox Material Steel Outside diameter 4'-4"
 Length of plain part top 1 Thickness of plates crown 2 1/32 Description of longitudinal joint Welded No. of strengthening rings ✓
bottom 1
 Working pressure of furnace by the rules 206 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8"
 Pitch of stays to ditto: Sides 8x7¾" Back 7½x7½" Top 8x8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 211 lbs
 Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 64" Working pressure by rules 185 lbs End plates in steam space:
 Material Steel Thickness 1" Pitch of stays 16x15" How are stays secured S. nuts Working pressure by rules 187 lbs Material of stays Steel
Area at smallest part 5.18" Area supported by each stay 240" Working pressure by rules 216 lbs Material of Front plates at bottom Steel
 Thickness 7/8" Material of Lower back plate Steel Thickness 15 3/32" Greatest pitch of stays 12x14" Working pressure of plate by rules 350 lbs
 Diameter of tubes 3½" Pitch of tubes 4½x4½" Material of tube plates Steel Thickness: Front 1" Back 39/32" Mean pitch of stays 9¾x9½"
 Pitch across wide water spaces 13 3/8" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 10x1¾" Length as per rule 2-9 9/16" Distance apart 8" Number and pitch of Stays in each 3 2 8"
 Working pressure by rules 252 lbs Superheater or Steam chest; how connected to boiler None 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. *One* Description *S.E. cyl. Mult.*Made at *Hull*By whom made *Charles S.B. & E. E. L.*When made *1905* Where fixed *Stockholm*Working pressure *180 lb* tested by hydraulic pressure to *360 lb* No. of Certificate *1400* Fire grate area *30.6 sq ft* Description of safety valves *direct spring*No. of safety valves *2* Area of each *3.14* Pressure to which they are adjusted *180 lb* If fitted with easing gear *yes* If steam from main boilers canenter the donkey boiler *no* Dia. of donkey boiler *11'-0"* Length *10'-6"* Material of shell plates *Steel* Thickness *1"* Range of tensilestrength *28-32* Descrip. of riveting long. seams *BS S. 5 Rivets* Dia. of rivet holes *1 1/2"* Whether punched or drilled *drilled* Pitch of rivets *7 3/8"*Lap of plating ☒ Per centage of strength of joint Rivets *86.2* Thickness of shell crown plates ☒ Radius of do. ☒ No. of Stays to do. ☒Dia. of stays. ☒ Diameter of furnace Top *3'-2"* Bottom *2'-0"* Length of furnace *6'-8"* Thickness of furnace plates *3/16"* Description ofjoint *Welded* Thickness of furnace crown plates ☒ Stayed by ☒ Working pressure of shell by rules *197 lb*Working pressure of furnace by rules *196 lb* Diameter of uptake ☒ Thickness of uptake plates ☒ Thickness of water *Des* ☒

SPARE GEAR. State the articles supplied:— *Two top-end and two bottom end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Assorted bolts + nuts etc.*

The foregoing is a correct description,

SHIPBUILDING & ENGINEERING CO. LIMITED

Honnusculis

Manufacturer.

Dates During progress of work in shops— MANAGER *1905:—Mar 14. 16. 29 Apr 11. 25. 28. May 2. 18. 22. 25. 31 Jun 2. 7. 14. 15. 19. 22*

of Survey During erection on June 23. 28. July 3. 6. 13. 18. 21. 28. Aug 1. 2. 8. 15. 17. 18. 22. 23. 25. 29

while board vessel—

building Total No. of visits *35*

Is the approved plan of main boiler forwarded herewith *yes*" " " donkey " " " *yes*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Engines and Boilers of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good condition and in my opinion eligible to have the notation of +LMC 8.05 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD

*+LMC 8.05**Sub.**31.8.05**31.8.05*

The amount of Entry Fee. £ *3* : - : When applied for, *30/8/05*

Special .. £ *36* : 2 : ..

Donkey Boiler Fee .. £ - : - : When received, *1.9.05*

Travelling Expenses (if any) £ - : - : ..

Committee's Minute

FRI. 1 SEP 1905

Assigned

+LMC 8.05

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



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Lloyd's Register
FoundationMAINTENANCE CERTIFICATE
WRITTEN