

Port of Hull

Received at London Office **TUES. APR 16 1907**

No. in Survey held at Selby & Hull Date, first Survey Nov. 9/06 Last Survey Mar. 21<sup>st</sup> 1907  
 Reg. Book. 48 Supp on the Screw Steamer "President" (Number of Visits 19)  
 Master do Built at Selby By whom built Cochrane & Sons Tons { Gross 257  
 Engines made at Hull By whom made Charles D. Holmes & Co. when made 1907 Net 109  
 Boilers made at do By whom made do when made 1907  
 Registered Horse Power 71 Owners The Anchor Steam Towing Co. Ltd Port belonging to Grimby  
 Nom. Horse Power as per Section 28 71 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 12½", 22", 35" Length of Stroke 24" Revs. per minute 110 Dia. of Screw shaft 7.29" 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 yes 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 6.6" Dia. of Crank shaft journals 6.9" Dia. of Crank pin 7½" Size of Crank webs 13½" x 4½" Dia. of thrust shaft under  
 collars 7½" Dia. of screw 8-7½" Pitch of Screw 10-6" to 11-6" No. of Blades 4 State whether moveable No Total surface 28 sq. ft.  
 No. of Feed pumps 1 Diameter of ditto 2½" Stroke 24" Can one be overhauled while the other is at work ✓  
 No. of Bilge pumps 1 Diameter of ditto 2½" Stroke 24" Can one be overhauled while the other is at work ✓  
 No. of Donkey Engines One Sizes of Pumps 2½" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room Two 2" dia. In Holds, &c. Three 2" dia.  
Ejector suction from all bilges & discharge on deck.  
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 2½" ejector  
 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  
 Dates of examination of completion of fitting of Sea Connections 17.11.06 of Stern Tube 17.11.06 Screw shaft and Propeller 17.11.06  
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door ✓ worked from ✓

**BOILERS, &c.**—(Letter for record (S)) Manufacturers of Steel David Colville & Sons Ltd.  
 Total Heating Surface of Boilers 1128 sq. ft. Forced Draft fitted No No. and Description of Boilers One S.E. by Mr. Muntz  
 Working Pressure 200 lb. Tested by hydraulic pressure to 400 lb. Date of test 28.2.07 No. of Certificate 1549  
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 38 sq. ft. No. and Description of Safety Valves to  
 each boiler Two spring Area of each valve 3.9" Pressure to which they are adjusted 205 lb. 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 10-8" Material of shell plates Steel  
 Thickness 1½" Range of tensile strength 28½-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams BR Lap  
 long. seams BR Lap Diameter of rivet holes in long. seams 1½" Pitch of rivets 7½" Lap of plates or width of butt straps 17½"  
 Per centages of strength of longitudinal joint 92.5 Working pressure of shell by rules 204 lb. Size of manhole in shell 16" x 12"  
 Size of compensating ring 7" x 1½" No. and Description of Furnaces in each boiler Two Holmes Material Steel Outside diameter 3-7"  
 Length of plain part top Thickness of plates bottom 23" Description of longitudinal joint Welded No. of strengthening rings ✓  
 Working pressure of furnace by the rules 209 Combustion chamber plates: Material Steel Thickness: Sides 23/32" Back 1/16" Top 23/32" Bottom 23/32"  
 Pitch of stays to ditto: Sides 9" x 9" Back 9½" x 8½" Top 8½" x 8½" If stays are fitted with nuts or riveted heads None Working pressure by rules 205 lb.  
 Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 81" Working pressure by rules 230 End plates in steam space:  
 Material Steel Thickness 1½" Pitch of stays 17½" x 17½" How are stays secured by nuts & washers Working pressure by rules 206 lb. Material of stays Steel  
 Diameter at smallest part 7" Area supported by each stay 306 lb. Working pressure by rules 228 Material of Front plates at bottom Steel  
 Thickness 15/16" Material of Lower back plate Steel Thickness 15/16" Greatest pitch of stays 14½" x 8½" Working pressure of plate by rules 213 lb.  
 Diameter of tubes 3¼" Pitch of tubes 5" x 4¼" Material of tube plates Steel Thickness: Front 15/16" Back 29/32" Mean pitch of stays 9¾"  
 Pitch across wide water spaces 15" Working pressures by rules 200 lb. Girders to Chamber tops: Material Steel Depth and  
 thickness of girder at centre 9½" x 1¼" Length as per rule 2-8½" Distance apart 8½" Number and pitch of stays in each 30 8½"  
 Working pressure by rules 211 lb. 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 ✓



# VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
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 Plates
Working pressure of shell by rules	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	
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

**SPARE GEAR.** State the articles supplied:—Two top & 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. Main & donkey feed check valves. Assorted bolts & nuts &c.

The foregoing is a correct description,

PER PRO CHARLES D. HOLMES & Co.

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1906:- Nov 9. 12. 15. 16. 17. Dec. 6. 17. 1907:- Jan 15. 22. 30. Feb 5. 19. 28. Mar 4. 8.  
During erection on board vessel - Mar 13. 16. 19. 21.  
Total No. of visits 19.

Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 5.2.07 Slides 4.3.07 Covers 8.3.07 Pistons 28.2.07 Rods 28.2.07  
Connecting rods 28.2.07 Crank shaft 8.3.07 Thrust shaft 8.3.07 Tunnel shafts ✓ Screw shaft 16.11.06 Propeller 16.11.06  
Stern tube 16.11.06 Steam pipes tested 16.3.07 Engine and boiler seatings 17.11.06 Engines holding down bolts 13.3.07  
Completion of pumping arrangements 21.3.07 Boilers fixed 13.3.07 Engines tried under steam 21.3.07  
Main boiler safety valves adjusted 21.3.07 Thickness of adjusting washers  $F \frac{5}{16}$  A  $\frac{5}{16}$   
Material of Crank shaft Iron Identification Mark on Do. 8.3.07 Material of Thrust shaft Iron Identification Mark on Do. 8.3.07  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 3.1906  
Material of Steam Pipes Solid drawn copper Test pressure 400 lbs

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

The Engines and Boiler 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 working condition and in my opinion eligible to have the notation of +LMC 3.07 in the Register Book.

It is submitted that this vessel is eligible for

LMC 3.07

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

When applied for, 15/4/1907

When received, 30/4/1907

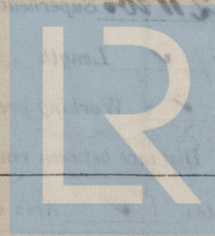
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI, APR 19 1907

Assigned

MACHINERY CERTIFICATE  
WRITTEN.



© 2021

Lloyd's Register  
Foundation