

Port of Hull

Received at London Office

No. in Survey held at Selby & Hull Date, first Survey June 7th Last Survey Sep. 13th 1906
Reg. Book. 14 on the Screw Steamer "Manx Queen" (Number of Visits 16)
Master Selby Built at Selby By whom built Cochrane & Sons When built 1906
Engines made at Hull By whom made Charles D. Holmes & Co. when made 1906
Boilers made at do By whom made do when made 1906
Registered Horse Power 66 Owners H. H. Beeley Port belonging to Grimby
Nom. Horse Power as per Section 28 66 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 12", 21", 34" Length of Stroke 24" Revs. per minute 112 Dia. of Screw shaft 7 3/8" Material of Iron
as per rule 7 3/8" as fitted 7 3/8" screw shaftIs 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 tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic-material insoluble in water and non-corrosive ✓ If twoliners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 31"Dia. of Tunnel shaft 6 3/8" as per rule 6 3/8" Dia. of Crank shaft journals 6 3/8" as per rule 6 3/8" Dia. of Crank pin 6 7/8" Size of Crank webs 13 1/2" x 5" Dia. of thrust shaft undercollars 6 7/8" Dia. of screw 8 1/2" Pitch of Screw 10 1/2" No. of Blades 4 State whether moveable No Total surface 27 1/2 sq. ft.No. of Feed pumps 1 Diameter of ditto 2 1/8" Stroke 24" Can one be overhauled while the other is at work ✓No. of Bilge pumps 1 Diameter of ditto 2 1/8" 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 pumpsIn Engine Room Two 2" dia. In Holds, &c. Two 2" dia.Ejector suction from all bilges & discharge on deck ✓No. of Bilge Injections 1 sizes 3 Connected to condenser, or to circulating pump Pumps a separate Donkey Suction fitted in Engine room & size 2 1/2" EjectorAre all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices in Engine room bulkheads always accessible NoneAre all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks BothAre 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 AboveAre 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 yesWhat pipes are carried through the bunkers Hold suction How are they protected Wood casingAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yesDates of examination of completion of fitting of Sea Connections 6.7.06 of Stern Tube 6.7.06 Screw shaft and Propeller 6.7.06Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record

(S)

Manufacturers of Steel

Russeldorf

Total Heating Surface of Boilers 10954 sq. ft. Forced Draft fitted No No. and Description of Boilers One S. E. Cyl. Mult.Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 23.8.06 No. of Certificate 1497Can each boiler be worked separately ✓ Area of fire grate in each boiler 32 sq. ft. No. and Description of Safety Valves toeach boiler Two spring Area of each valve 3.9" Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 7" Ext. Mean dia. of boilers 12'-0" Length 10'-0" Material of shell plates SteelThickness 1" Range of tensile strength 29.32 lbs Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DR Laplong. seams DR S. 5/16" Diameter of rivet holes in long. seams 1 1/32" Pitch of rivets 7" Top of plates or width of butt straps 15"Per centages of strength of longitudinal joint 86 Working pressure of shell by rules 186 lbs Size of manhole in shell 16" x 12"Size of compensating ring 7" x 1" No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 3'-6"Length of plain part 5'-10" Thickness of plates 3/4" Description of longitudinal joint Welded No. of strengthening rings ✓Working pressure of furnace by the rules 184 lbs Combustion chamber plates: Material Steel Thickness: Sides 2 3/32" Back 1 1/16" Top 2 3/32" Bottom 2 3/32"Pitch of stays to ditto: Sides 9 x 8 1/2" Back 9 x 8 1/2" Top 8 1/2 x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 213 lbsMaterial of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 105" Working pressure by rules 204 End plates in steam space:Material Steel Thickness 1 1/32" Pitch of stays 16" x 16" How are stays secured DR. + W Working pressure by rules 196 lbs Material of stays SteelDiameter at smallest part 5.7" Area supported by each stay 25.6" Working pressure by rules 225 Material of Front plates at bottom SteelThickness 2 3/32" Material of Lower back plate Steel Thickness 1 5/16" Greatest pitch of stays 15" Working pressure of plate by rules 198 lbsDiameter of tubes 3 1/4" Pitch of tubes 4 5/8" x 4 5/8" Material of tube plates Steel Thickness: Front 2 7/32" Back 7/8" Mean pitch of stays 9 1/4"Pitch across wide water spaces 15" Working pressures by rules 180 lbs Girders to Chamber tops: Material Iron Depth andthickness of girder at centre 8 3/4" x 1 3/4" Length as per rule 2'-8" Distance apart 8" Number and pitch of stays in each 3 @ 8 1/2"Working pressure by rules 196 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler workedseparately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivetholes ✓ 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?

3m. 2.5. 1.

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,

Charles D. Holmes, Manufacturer.

Dates of Survey while building { During progress of work in shops - 1906: - Jun 7. 19. 25. July 2. 3. 6. 17. Aug 9. 18. 22. 23. 31. Sep 6. 8. 12. 13.
During erection on board vessel - - -
Total No. of visits 16

Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 18. 8. 06 Slides 22. 8. 06 Covers 22. 8. 06 Pistons 22. 8. 06 Rods 22. 8. 06
Connecting rods 22. 8. 06 Crank shaft 31. 8. 06 Thrust shaft 31. 8. 06 Tunnel shafts ✓ Screw shaft 3. 7. 06 Propeller 3. 7. 06
Stern tube 2. 7. 06 Steam pipes tested 6. 9. 06 Engine and boiler seatings 6. 7. 06 Engines holding down bolts 8. 9. 06
Completion of pumping arrangements 13. 9. 06 Boilers fixed 8. 9. 06 Engines tried under steam 13. 9. 06
Main boiler safety valves adjusted 8. 9. 06 Thickness of adjusting washers $F \frac{1}{4}$ " $A \frac{1}{4}$ "
Material of Crank shaft Iron Identification Mark on Do. 268JB 31. 8. 06 Material of Thrust shaft Iron Identification Mark on Do. 31. 8. 06
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 268JB 3. 7. 06
Material of Steam Pipes Solid drawn copper Test pressure 360 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 + L M C 9. 06 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD H L M C 9. 06

The amount of Entry Fee. £ 1 : : : When applied for.
Special £ 9. 18 : : : 20/9/1906
Donkey Boiler Fee £ : : : : When received.
Travelling Expenses (if any) £ : : : : 29. 9. 06

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

Committee's Minute

TUES. OCT 2 1906

Assigned

MACHINERY CERTIFICATE WRITTEN.



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