

Port of Hull

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No. in Survey held at *Hull* Date, first Survey *Sep 12/05* Last Survey *Feb 8th 1906*
 Reg. Book. *52* *app on the* *Screw Trawler "Thrush"* (Number of Visits *15*)
 Master *do* Built at *Hull* By whom built *Carlisle S. & E. Co. Ltd.* Tons { Gross *264*
 Engines made at *Hull* By whom made *Carlisle S. & E. Co. Ltd.* when made *1906* Net *103*
 Boilers made at *do* By whom made *do* when made *1906*
 Registered Horse Power *79* Owners *The Pioneer S. F. Co. Ltd.* Port belonging to *Grimsby*
 Nom. Horse Power as per Section 28 *79* Is Refrigerating Machinery fitted *No* Is Electric Light fitted *No*

ENGINES, &c.—Description of Engines

*Triple*No. of Cylinders *3*No. of Cranks *3*Dia. of Cylinders *12³/₄, 22, 36* Length of Stroke *24* Revs. per minute *110* Dia. of Screw shaft *as per rule 7.35* Material of *Iron*
as fitted 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 *✓* 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 *2'-10¹/₂"*Dia. of Tunnel shaft *as per rule 6.49* Dia. of Crank shaft journals *as per rule 6.8* Dia. of Crank pin *7¹/₂"* Size of Crank webs *4¹/₂ x 4³/₈"* Dia. of thrust shaft undercollars *7¹/₂"* Dia. of screw *9'-0"* Pitch of screw *11'-6"* No. of blades *4* State whether moveable *No* Total surface *27 sq. ft.*No. of Feed pumps *1* Diameter of ditto *3"* Stroke *12"* Can one be overhauled while the other is at workNo. of Bilge pumps *1* Diameter of ditto *3"* Stroke *12"* Can one be overhauled while the other is at workNo. of Donkey Engines *One* Sizes of Pumps *6 x 3 x 6"* No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room *One 2" dia.* In Holds, &c. *Four 2" dia.**Injector suction from all bilges & discharge on deck*No. of bilge injections *1* sizes *3¹/₂"* Connected to condenser, or to circulating pump *Cond.* Is a separate donkey suction fitted in Engine room & size *3" injector*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 *For suction & which pipes* How are they protected *Wood & iron 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 launch* Is the screw shaft tunnel watertight *None*Is it fitted with a watertight door *✓* worked from *✓*

BOILERS, &c.—

(Letter for record *(S)*)Total Heating Surface of Boilers *1370 sq. ft.*Is forced draft fitted *No*No. and Description of Boilers *One by L. S. E. Muller* Working Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs*Date of test *20.1.06* Can each boiler be worked separately *✓* Area of fire grate in each boiler *354 sq. ft.* No. and Description of safety valves toeach boiler *Two direct spring* Area of each valve *4.9"* Pressure to which they are adjusted *185 lbs* Are they fitted with easing gear *yes*Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Mean dia. of boilers *12.9"* Length *10.6"* Material of shell plates *Steel*Thickness *1¹/₁₆"* Range of tensile strength *28-33* Are they welded or flanged *No* Descrip. of riveting: cir. seams *DR Lap long. seams 5R 5R 5R 5R*Diameter of rivet holes in long. seams *1¹/₁₆"* Pitch of rivets *7¹/₈"* Lap of plates or width of butt straps *15¹/₂"*Per centages of strength of longitudinal joint *87* Working pressure of shell by rules *182 lbs* Size of manhole in shell *16" x 12"*Size of compensating ring *2'-7¹/₂ x 2'-4¹/₂ x 1¹/₁₆"* No. and Description of Furnaces in each boiler *Two plain* Material *Steel* Outside diameter *3'-8¹/₂"*Length of plain part *top 5'-9¹/₂" bottom 5'-2¹/₂"* Thickness of plates *top 4⁹/₁₆" bottom 4¹/₁₆"* Description of longitudinal joint *Welded* No. of strengthening rings *✓*Working pressure of furnace by the rules *180 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *5¹/₈"* Back *2¹/₃₂"* Top *5¹/₈"* Bottom *5¹/₈"*Pitch of stays to ditto: Sides *8¹/₂ x 8¹/₂"* Back *7¹/₄ x 8"* Top *8³/₄ x 8¹/₂"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *181 lbs*Material of stays *Steel* Diameter at smallest part *1¹/₂"* Area supported by each stay *74"* Working pressure by rules *190 lbs* End plates in steam space:Material *Steel* Thickness *1¹/₈"* Pitch of stays *7¹/₂ x 17¹/₂"* How are stays secured *Nuts* Working pressure by rules *180 lbs* Material of stays *Steel*Diameter at smallest part *2¹/₁₆"* Area supported by each stay *306"* Working pressure by rules *203 lbs* Material of Front plates at bottom *Steel*Thickness *1⁵/₁₆"* Material of Lower back plate *Steel* Thickness *2³/₈ + 3³/₈"* Greatest pitch of stays *17" x 13¹/₂"* Working pressure of plate by rules *230 lbs*Diameter of tubes *3¹/₂"* Pitch of tubes *5" x 4³/₄"* Material of tube plates *Steel* Thickness: Front *1⁵/₁₆"* Back *1³/₁₆"* Mean pitch of stays *10" x 9¹/₂"*Pitch across wide water spaces *14¹/₂"* Working pressures by rules *182 lbs* Girders to Chamber tops: Material *Steel* Depth andthickness of girder at centre *10" x 1³/₄"* Length as per rule *3'-0"* Distance apart *8³/₄"* Number and pitch of Stays in each *3 @ 8¹/₂"*Working pressure by rules *198 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 *✓*

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 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,

F. J. Salethorpe Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1905: - Sep 12. Oct. 2. 20. Nov. 6. 28. Dec. 8. 9. 19. 30. 1906: - Jan 10. 20. During erection on board vessel - - Jan 23. 26. 31. Feb. 8. Total No. of visits 15

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

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 2, 06 in the Register Book.

This vessel is a duplicate of the S. S. "Crown" Hull Report No. 17558.

It is submitted that
this vessel is eligible for
THE RECORD + L M C 2.06.

pm
27.2.06
27.2.06

The amount of Entry Fee.. £ 1 : . : . When applied for, 21/2/1906
Special £ 11 : 17 : .
Donkey Boiler Fee £ . : . : . When received, 6/3/06
Travelling Expenses (if any) £ . : . : .

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

Committee's Minute

FRI. 2 MAR 1906

Assigned

+ L M C 2.06

MACHINERY CERTIFICATE
WRITTEN.



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