

Port of *Hull*

Received at London Office JUL 27 1906

No. in Survey held at *Hull* Date, first Survey *No. 28/05* Last Survey *Feb 13<sup>th</sup> 1906*  
 Reg. Book. *Screw Trawler "Whitefriars"* (Number of Visits *12*)  
 Master *By whom built* *Charles S. & E. C. Ltd.* Tons { Gross *286*  
 Engines made at *Hull* By whom made *Charles S. & E. C. Ltd.* when made *1906*  
 Boilers made at *do* By whom made *do* when made *1906*  
 Registered Horse Power *77* Owners *The City S. Fishing Co. Ltd.* Port belonging to *Hull*  
 Nom. Horse Power as per Section 28 *77* 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 *12 3/4, 22, 36* Length of Stroke *24* Revs. per minute *112* Dia. of Screw shaft *7 1/2* as per rule *7 1/2* as fitted *8* Material of screw shaft *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 *✓* 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 *2-10 1/2*  
 Dia. of Tunnel shaft *6 1/2* as per rule *6 1/2* as fitted *7 3/8* Dia. of Crank shaft journals *7 1/2* as per rule *7 1/2* as fitted *7 1/2* Dia. of Crank pin *7 1/2* Size of Crank webs *4 1/2 x 4 3/8* Dia. of thrust shaft under collars *7 1/2* 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 work *✓*  
 No. of Bilge pumps *1* Diameter of ditto *3* Stroke *12* Can one be overhauled while the other is at work *✓*  
 No. of Donkey Engines *Two* Sizes of Pumps *6x3x6 - 6x3 1/2 x 6* No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room *One 2" dia.* In Holds, &c. *Three 2" dia.*  
*Ejector suction from all bilges & discharge on deck*  
 No. of bilge injections *1* sizes *3 1/2* Connected to condenser, or to circulating pump *Cond.* Is a separate donkey suction fitted in Engine room & size *3" 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 *✓*  
 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 & winch 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 *(5)*) Total Heating Surface of Boilers *1250 sq. ft.* Is forced draft fitted *No*  
 No. and Description of Boilers *One cyl. S. & E. Hull* Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs*  
 Date of test *30.1.06* Can each boiler be worked separately *✓* Area of fire grate in each boiler *43 sq. ft.* No. and Description of safety valves to each boiler *Two direct spring* Area of each valve *4.9* Pressure to which they are adjusted *203 lbs* Are they fitted with easing gear *yes*  
 Smallest distance between boilers or uptakes and bunkers or woodwork *5"* Mean dia. of boilers *12-9* Length *10-3 1/2* Material of shell plates *Steel*  
 Thickness *1 5/16* Range of tensile strength *28-32* Are they welded or flanged *No* Descrip. of riveting: cir. seams *DR Lap* long. seams *DR 5 Rivets*  
 Diameter of rivet holes in long. seams *1 3/16* Pitch of rivets *8 7/16* Lap of plates or width of butt straps *17 1/2*  
 Per centages of strength of longitudinal joint rivets *88.3* plate *85.2* Working pressure of shell by rules *201 lbs* Size of manhole in shell *16" x 12"*  
 Size of compensating ring *3-4 x 2-6 x 1 5/16* No. and Description of Furnaces in each boiler *Three plain* Material *Steel* Outside diameter *3-0*  
 Length of plain part top *6-4* bottom *5-10 3/4* Thickness of plates crown *3/4* bottom *3/4* Description of longitudinal joint *welded* No. of strengthening rings *✓*  
 Working pressure of furnace by the rules *207 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1/16* Back *1/16* Top *1/16* Bottom *1/16*  
 Pitch of stays to ditto: Sides *8 x 8 1/2* Back *7 1/2 x 7 1/2* Top *8 x 7 1/4* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *217 lbs*  
 Material of stays *Steel* Diameter at smallest part *1 1/2* Area supported by each stay *68* Working pressure by rules *207 lbs* End plates in steam space:  
 Material *Steel* Thickness *1 3/16* Pitch of stays *17 x 15* How are stays secured *brackets* Working pressure by rules *209 lbs* Material of stays *Steel*  
 Diameter at smallest part *2 7/16* Area supported by each stay *255* Working pressure by rules *203 lbs* Material of Front plates at bottom *Steel*  
 Thickness *1 5/16* Material of Lower back plate *Steel* Thickness *2 3/4* Greatest pitch of stays *19 x 11 1/2* Working pressure of plate by rules *220 lbs*  
 Diameter of tubes *3 1/4* Pitch of tubes *4 3/8 x 4 3/4* Material of tube plates *Steel* Thickness: Front *1 5/16* Back *1 3/16* Mean pitch of stays *9 3/4 x 9 1/2*  
 Pitch across wide water spaces *13 3/4* Working pressures by rules *202 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *9 1/2 x 1 3/4* Length as per rule *2-9 9/16* Distance apart *7 1/4* Number and pitch of Stays in each *3 @ 8*  
 Working pressure by rules *246 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 *✓*

W1099-0129



## 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. Palethorpe

Manufacturer.

Dates of Survey while building

During progress of work in shops—  
During erection on board vessel—  
Total No. of visits—

Feb. 7. 13.

SECRETARY

1905:—Nov 28. Dec 9. 19. 30. 1906:—Jan 8. 16. 20. 23. 30. Feb 5.

Is the approved plan of main boiler forwarded herewith

yes

" " " donkey " " "

## General Remarks

(State quality of workmanship, opinions as to class, &amp;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 2.06 in the Register Book.

It is submitted that  
this vessel is eligible for  
THE RECORD +LMC 2.06

ES. 27.2.06  
27.2.06

The amount of Entry Fee.

£

1 : .

When applied for,

Special

£

11 : 11

22/21.1906

Donkey Boiler Fee

£

. : .

When received,

Travelling Expenses (if any) £

£

. : .

19/3/06

Engine Surveyor to Lloyd's Register of British &amp; Foreign Shipping.

Committee's Minute

FRI. 2 MAR 1906

Assigned

+LMC 2.06

MACHINERY CERTIFICATE  
WRITTEN.

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Lloyd's Register  
Foundation