

Port of Hull

No. in Survey held at
Reg. Book.Date, first Survey *Sep. 19/05* Last Survey *9th Feb'y 1906*68 *App.* on the *Steel Sc. K. Abironia*(Number of Visits *34*)Gross *242*
Tons Net *121*
When built *1906*Master *Selby* Built at *Selby* By whom built *Messrs* *Bocheane Sons*Engines made at *Hull* By whom made *Messrs* *Charles D. Holmes & Co.* when made *1906*Boilers made at *Hull* By whom made *Charles D. Holmes & Co.* when made *1906*Registered Horse Power *68* Owners *North Eastern Steam Fishing Co. Ltd* Port belonging to *Grimsby*Nom. Horse Power as per Section 28 *68* Is Refrigerating Machinery fitted *No* Is Electric Light fitted *No*ENGINES, &c.—Description of Engines *Triple Expansion*No. of Cylinders *3* No. of Cranks *3*Dia. of Cylinders *12 1/4" - 22" - 35"* Length of Stroke *24"* Revs. per minute *110* Dia. of Screw shaft *7 1/2"* Material of *Steel*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 tightin the propeller boss *Yes* If the liner is in more than one length are the joints burned *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 two*liners are fitted, is the shaft lapped or protected between the liners *plain* Length of stern bush *30 1/2"*Dia. of *plain* shaft as per rule *6 3/8"* Dia. of Crank shaft journals as per rule *6 7/8"* Dia. of Crank pin *7"* Size of Crank webs *13 3/8" x 4 7/8"* Dia. of thrust shaft undercollars *7"* Dia. of screw *8" - 7 1/2"* Pitch of screw *11" - 0"* No. of blades *4* State whether moveable *No* Total surface *28 sq*No. of Feed pumps *1* Diameter of ditto *2 1/8"* Stroke *24"* Can one be overhauled while the other is at workNo. of Bilge pumps *1* Diameter of ditto *2 1/8"* Stroke *24"* Can one be overhauled while the other is at workNo. of Donkey Engines *one* Sizes of Pumps *2 3/4" x 5"* No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room *Two* *2"* In Holds, &c. *One 2" to each of two slush wells.*and ejector suction from eng room bilge slush wells, with discharge *on deck*No. of bilge injections *1* sizes *3"* Connected to condenser, or to circulating pump *pump* Is a separate donkey suction fitted in Engine room & size *Yes 2"*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 *0*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 *Slush well 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*When were stern tube, propeller, screw shaft, and all connections examined in dry dock *before leaving* 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 *1090 sq* Is forced draft fitted *No*No. and Description of Boilers *One cyl. Multi* 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 32.8 sq* No. and Description of safety valves toeach boiler *Two Spring* Area of each valve *3.98 sq* 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' - 6"* Length *10' - 0"* Material of shell plates *Steel*Thickness *1 1/2"* Range of tensile strength *29 32 tons* Are they welded or flanged *Descrip. of riveting: cir. seams L. D. long. seams D. B. S. Y. R.*Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *7"* Lap of plates or width of butt straps *15"*Per centages of strength of longitudinal joint *86%* Working pressure of shell by rules *185 lbs* Size of manhole in shell *16" x 12"*Size of compensating ring *7" x 1 1/2"* No. and Description of Furnaces in each boiler *Two Plain* Material *Steel* Outside diameter *43"*Length of plain part *5' - 10'* Thickness of plates *4 9/16"* Description of longitudinal joint *welded* No. of strengthening rings *0*Working pressure of furnace by the rules *185 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1 1/2"* Back *1 1/2"* Top *1 1/2"* Bottom *1 1/2"*Pitch of stays to ditto: Sides *9" x 10"* Back *9" x 8 1/2"* Top *9" x 8 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *219 lbs*Material of stays *Steel* Diameter at smallest part *1 3/4"* Area supported by each stay *margin 117 sq* Working pressure by rules *184 lbs* End plates in steam space:Material *Steel* Thickness *1 3/32"* Pitch of stays *16" x 18 3/4"* How are stays secured *margin 117 sq* Working pressure by rules *186 lbs* Material of stays *Steel*Diameter at smallest part *6.33 sq* Area supported by each stay *300 sq* Working pressure by rules *211 lbs* Material of Front plates at bottom *Steel*Thickness *3/32"* Material of Lower back plate *Steel* Thickness *1 1/2"* Greatest pitch of stays *17 3/4"* Working pressure of plate by rules *180 lbs*Diameter of tubes *3 1/2"* Pitch of tubes *4 1/4" x 4 5/8"* Material of tube plates *Steel* Thickness: Front *3/32"* Back *7/8"* Mean pitch of stays *9 1/4"*Pitch across wide water spaces *16"* Working pressures by rules *180 lbs* Girders to Chamber tops: Material *Iron* Depth andthickness of girder at centre *9" x 1 3/4"* Length as per rule *2' - 8"* Distance apart *9'* Number and pitch of Stays in each *3 - 8 1/2"*Working pressure by rules *193 lbs* Superheater or Steam chest; how connected to boiler *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.

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
Plates

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 each top, and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air, circulating, feed + bilge pump valves, and a quantity of assorted bolts, nuts, etc.

The foregoing is a correct description,

Charles D. Schmutz, Manufacturer.

Dates
of Survey
while
buildingDuring progress of
work in shops -
During erection on
board vessel -
Total No. of visits1905:- Sep. 19. 27. Oct. 3. 4. 10. 19. 24. 25. Nov. 1. 2. 13. 14. 22. 24. 28. 29. Dec. 6. 13. 20. 1906:-
Jan. 2. 3. 11. 17. 19. 20. 22. 26. 29. Feb. 1. 3. 6. 7. 8. 9.

Is the approved plan of main boiler forwarded herewith

Yes

General Remarks

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

The machinery and boiler of this vessel have been inspected throughout construction in accordance with the Society's Rules. The materials and workmanship are good. The boiler tested by hydraulic pressure, and with the engines placed on board and tested under steam, they are now in good order, and safe working condition, and respectfully submitted as being eligible in my opinion to be classed with the notation of $\frac{1}{2}$ L.M.C. 2.06 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD $\frac{1}{2}$ L.M.C. 2.06

P.M.S.

24. 2. 06

24. 2. 06

The amount of Entry Fee

£

1

:

:

:

When applied for,

23/2/06

Special

£

10

:

:

:

When received,

28/2/06

Donkey Boiler Fee

£

:

:

:

When received,

28/2/06

Travelling Expenses (if any)

£

:

:

:

:

When received,

28/2/06

Committee's Minute

TUES. 27 FEB 1906

Assigned

L.M.C. 2.06

MACHINERY CERTIFICATE
WRITTEN

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Lloyd's Register
Foundation