

Port of *Null*Received at London Office *SAT. 30 SEP 1905*

No. in Survey held at *Null* Date, first Survey *April 25th* Last Survey *Sep. 18th 1905*
 Reg. Book. *1 Supp.* on the *Screw Trawler "Isle of Man"* (Number of Visits *26*) Tons { Gross *176*
 Net *60*
 Master *Null* Built at *Null* By whom built *Charles S.B. & Co. Ltd.* When built *1905*
 Engines made at *Null* By whom made *Charles S.B. & Co. Ltd.* when made *1905*
 Boiler made at *do* By whom made *do* when made *1905*
 Registered Horse Power *46* Owners *Null Steam Fishing & Ice Co. Ltd.* Port belonging to *Null*
 Nom. Horse Power as per Section 28 *46* 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 *10, 17, 28"* Length of Stroke *22"* Revs. per minute *112* Dia. of Screw shaft *6.6"* as per rule *6.6"* 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' 8 1/2"*
 Dia. of Tunnel shaft *5.57"* as per rule *5.57"* Dia. of Crank shaft journals *5.8"* as per rule *5.8"* Dia. of Crank pin *6 1/4"* Size of Crank webs *12 1/2 x 3 1/2"* Dia. of thrust shaft under
 collars *6 1/4"* Dia. of screw *8' 9"* Pitch of screw *8' 0" root 9' 6" tips* No. of blades *4* State whether moveable *No* Total surface *24 sq. ft.*
 No. of Feed pumps *1* Diameter of ditto *2 1/2"* Stroke *11"* Can one be overhauled while the other is at work *✓*
 No. of Bilge pumps *1* Diameter of ditto *2 1/2"* Stroke *11"* Can one be overhauled while the other is at work *✓*
 No. of Donkey Engines *2* Sizes of Pumps *6x3x6, 5x5x5"* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *One 2" dia.* In Holds, &c. *One 2" dia.*
Ejector suction from Eng. bilge, hold, & ballast tanks, & discharge on decks.
 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 *Hold & tank 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 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 *750 sq. ft.* Is forced draft fitted *No*
 No. and Description of Boilers *One S.B. Cyl. Mult.* Working Pressure *200 lbs.* Tested by hydraulic pressure to *400 lbs.*
 Date of test *21.7.05* Can each boiler be worked separately *✓* Area of fire grate in each boiler *25 1/2 sq. ft.* No. and Description of safety valves to
 each boiler *Two direct spring* Area of each valve *3.14"* 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 *7 1/2"* *Int.* dia. of boilers *10' 6"* Length *9' 3"* Material of shell plates *Steel*
 Thickness *1"* Range of tensile strength *28-32* Are they welded or flanged *No* Descrip. of riveting: cir. seams *SR. Lap* long. seams *SR. 5 Rivets*
 Diameter of rivet holes in long. seams *1 1/16"* Pitch of rivets *7 1/4"* Lap of plates or width of butt straps *16"*
 Per centages of strength of longitudinal joint *91.3* rivets *85.3* plate Working pressure of shell by rules *207 lbs.* Size of manhole in shell *16" x 12"*
 Size of compensating ring *3' 4" x 2' 6" x 1"* No. and Description of Furnaces in each boiler *Two plain* Material *Steel* Outside diameter *35.53"*
 Length of plain part *5' 2"* top *5' 6 1/2"* Thickness of plates *49"* crown *64"* bottom Description of longitudinal joint *Welded* No. of strengthening rings *✓*
 Working pressure of furnace by the rules *229 lbs.* Combustion chamber plates: Material *Steel* Thickness: Sides *1/16"* Back *5/8"* Top *5/8"* Bottom *1/16"*
 Pitch of stays to ditto: Sides *8 1/4" x 7"* Back *7 1/2" x 7 1/2"* Top *8 1/4" x 7"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *230 lbs.*
 Material of stays *Steel* Diameter at smallest part *1 3/8"* Area supported by each stay *50.7"* Working pressure by rules *233 lbs.* End plates in steam space:
 Material *Steel* Thickness *15/16"* Pitch of stays *4 1/4" x 14"* How are stays secured *5 Nuts & 40* Working pressure by rules *208 lbs.* Material of stays *Steel*
 Area at smallest part *5.18* Area supported by each stay *199.5"* Working pressure by rules *259 lbs.* Material of Front plates at bottom *Steel*
 Thickness *15/16"* Material of Lower back plate *Steel* Thickness *15/16"* Greatest pitch of stays *5 1/2" x 12 1/2"* Working pressure of plate by rules *210 lbs.*
 Diameter of tubes *3 1/4"* Pitch of tubes *4 3/8" x 4 5/8"* Material of tube plates *Steel* Thickness: Front *15/16"* Back *7/8"* Mean pitch of stays *9 3/4" x 9 1/4"*
 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 *7 1/2" x 1 3/4"* Length as per rule *2' 6 1/8"* Distance apart *7"* Number and pitch of Stays in each *20 8 1/4"*
 Working pressure by rules *212 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 *✓*

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,

Manufacturer.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits

1905:- April 25. 28 May 3. 11. 18. 22. 25. 31. June 2. 7. 14. 15. 19. 22. 23. 28

July 3. 6. 15. 18. 21. Aug 22. 31 Sep 5. 12. 18.

26

Is the approved plan of main boiler forwarded herewith *R/L 17036* (please return)

" " " donkey *See "Hull" 29. 3. 05*

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 9, 05 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD *LMC 9.05*

Publ. 30.9.05

30.9.05

The amount of Entry Fee. £ 1 : : : When applied for, 26/9/1905

Special £ 8 : : : When received, 20/10/05

Donkey Boiler Fee £ : : : : : 20/10/05

Travelling Expenses (if any) £ : : : : : 19

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

Committee's Minute

TUES. 3 OCT 1905

Assigned

+ LMC 9 05

MACHINERY CERTIFICATE WRITTEN



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Certificate (if required) to be sent to Hull

(The Surveyors are requested not to write on or below the space for Committee's Minute.)