

REPORT ON MACHINERY.

THUR. MAR 1 1900

Received at London Office 18

Port of Shell
 No. in Survey held at Selby & Hull Date, first Survey Nov. 2/99 Last Survey Feb. 22nd 1900
 Reg. Book. Selby & Hull (Number of Visits 18)
 Tons ^{Gross} 169 _{Net} 51
 Support the Iron Steam Trawler Rinto
 Master Selby Built at Selby By whom built Cochran Hooper When built 1900
 Engines made at Shell By whom made Chas & Holmes & Co when made 1900
 Boilers made at Shell By whom made Chas & Holmes & Co when made 1900
 Registered Horse Power 62 Owners G F Meight Port belonging to Penumb
 Nom. Horse Power as per Section 28 62 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three

Dia. of Cylinders 12. 19 1/2 & 32 Length of Stroke 23 Revs. per minute 110 Dia. of Screw shaft 6.37 Lgth. of stern bush 31
 as per rule 5.76 as fitted 6.37 as per rule 6.07 as fitted 6.37
 Dia. of Tunnel shaft 6 1/2 Dia. of Crank shaft journals 6.37 Dia. of Crank pin 6 3/8 Size of Crank webs 8 1/2 x 4 1/2 Dia. of thrust shaft under
 collars 6 3/8 Dia. of screw 8.5 Pitch of screw 11:0 No. of blades 4 State whether moveable No Total surface 22 1/2 sq ft
 No. of Feed pumps one Diameter of ditto 1 7/8 Stroke 23 Can one be overhauled while the other is at work -
 No. of Bilge pumps one Diameter of ditto 2 1/4 Stroke 20 Can one be overhauled while the other is at work -
 No. of Donkey Engines one Sizes of Pumps 2 1/2 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room one 2 In Holds, &c. one 2

Explain suction in the engine bilge and discharge on deck, also from hold

No. of bilge injections one sizes 3 Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size explain
 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 None
 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 Suction to forward How are they protected hard lined
 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 now new Is the screw shaft tunnel watertight in tunnel
 Is it fitted with a watertight door - worked from -

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 1037 sq ft Is forced draft fitted No

No. and Description of Boilers One Cylindrical Working Pressure 180 lb Tested by hydraulic pressure to 360 lb
 Date of test 1/2/00 Can each boiler be worked separately - Area of fire grate in each boiler 30 sq ft No. and Description of safety valves to
 each boiler Two Spring Area of each valve 3.9 sq in Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 8' Mean dia. of boilers 11.6' Length 9.6' Material of shell plates Steel
 Thickness 1" Range of tensile strength 29632 Are they welded or flanged - Descrip. of riveting: cir. seams all in lap long. seams all chip & she
 Diameter of rivet holes in long. seams 1 1/32 Pitch of rivets 7 Lap of plates or width of butt straps 15
 Per centages of strength of longitudinal joint ^{rivets} 88 7/8 Working pressure of shell by rules 193 lb Size of manhole in shell 16 x 12
 plate 85 7/8
 Size of compensating ring 6 x 1 No. and Description of Furnaces in each boiler Two Holmes Material Steel Outside diameter 4 1/2
 Length of plain part ^{top} 15 Thickness of plates ^{bottom} 10 1/16 Description of longitudinal joint beaded No. of strengthening rings 4
 Working pressure of furnace by the rules 184 lb Combustion chamber plates: Material Steel Thickness: Sides 2 1/32 Back 9/16 Top 2 1/32 Bottom 2 1/32
 Pitch of stays to ditto: Sides 7 3/4 Back 7 3/4 Top 7 7/8 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 202 lb
 Material of stays Steel Diameter at smallest part 1 1/2 Area supported by each stay 7 7/8 x 7 1/2 Working pressure by rules 242 lb End plates in steam space:
 Material Steel Thickness 1" Pitch of stays 15 3/4 How are stays secured Yes Working pressure by rules 191 lb Material of stays Steel
 Diameter at smallest part 2 23/32 Area supported by each stay 15 3/4 Working pressure by rules 234 lb Material of Front plates at bottom Steel
 Thickness 27/32 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 12 Working pressure of plate by rules 180 lb
 Diameter of tubes 3 1/4 Pitch of tubes 4 3/4 Material of tube plates Steel Thickness: Front 27/32 Back 13/16 Mean pitch of stays 9 1/2
 Pitch across wide water spaces 14 Working pressures by rules 180 lb Girders to Chamber tops: Material Iron Depth and
 thickness of girder at centre 7 3/4 x 1 3/4 Length as per rule 29 1/4 Distance apart 7 7/8 Number and pitch of Stays in each Three 7 1/2
 Working pressure by rules 192 lb 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 -

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 Foundation
 HUL 421-0201

DONKEY BOILER— No. Description *No Donkey Boiler*

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 end bolts. One bottom end bolt. Two main bearing bolts. One set coupling bolts. One set dead pump valve. One set Bilge pump valve. One set Check valve. Safety valve Spring.*

The vessel equipped with Mast and sail as a Trawler.

The foregoing is a correct description,

Charles Holmstedt Manufacturer.

Dates of Survey while building

During progress of work in shops 1899:— Nov. 2, 3, 8, 15, 21, 29 Dec. 6, 12 1900:— Jan 3, 10, 30 Feb 1, 6, 8, 13, 16, 17, 22

During erection on board vessel

Total No. of visits 18

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “ “

General Remarks (State quality of workmanship, opinions as to class, &c. *Workmanship Good.*)

This case is similar in all respects to the "Pollo" Hull Report No 12824.

The Machinery and Boiler of this Steam Trawler have been constructed under Special Survey, and placed on board in accordance with The Society's Rules. They are found in my opinion in safe working condition and the case is respectfully submitted for the Certification + L.M.C. 2. 1900 in The Register Book.

It is submitted that this case is eligible for THE BOARD. ✠ L.M.C. 2. 00.

J.S. 6msd.
1.3.00 1/3/00.

The amount of Entry Fee... £ 1 : 0 : When applied for, 22/2 1900

Special £ 9 : 6 : When received, M.R. 28/2/1900

Donkey Boiler Fee £ - : - : -

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

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

Committee's Minute

FRI. 2 MAR 1900

MACHINERY CERTIFICATE WRITTEN.

Assigned

+ 2msd. 00



Lloyd's Register Foundation

These

Signal Le

Official

No., Date

Whether B Foreign

British

Number o

Number o

Rigged ..

Stern ..

Build ..

Galleries

Head ..

Framework vessel ..

Number of

Number of and thei

Total to q at side a

No. of Engines

One

Let.

Num Iron Pre

Under Ton

Closed-in s

Space or

Poop ...

Forecast

Round F

Other cl

Spaces

air, sec

G

Deductions

R

Nam

No. of Own

Name, Res

Georg

Dated 27

R S & Co—P

F

Certificate (if required) to be sent to Hull

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