

REPORT ON MACHINERY.

10069

Port of Hull

WED. 6 NOV 1895

Received at London Office

18

No. in Survey held at Hull Date, first Survey July 11th Last Survey 25th Oct 1895
 Reg. Book. 205 on the Iron Steam Trawler Magnetic (Number of Visits 10)
 Master Built at Hull By whom built Barber & Lim When built 1895
 Engines made at Hull By whom made Barber & Lim when made 1895
 Boilers made at Hull By whom made Barber & Lim when made 1895
 Registered Horse Power 45 Owners Grimby Steam Trawl Co Port belonging to Grimby
 Nom. Horse Power as per Section 28 47 48

ENGINES, &c.— Description of Engines Triple Comp Low & Acting No. of Cylinders Three
 Diameter of Cylinders 11" 17" 30" Length of Stroke 21" Revolutions per minute 180 Diameter of Screw shaft 5 1/4"
 Diameter of Tunnel shaft 5 1/4" Diameter of Crank shaft journals 5 1/4" Diameter of Crank pin 5 1/4" Size of Crank webs 7 x 3 1/2"
 Diameter of screw 7' 8" Pitch of screw 9' 3" No. of blades 4 State whether moveable No Total surface 21 sq ft
 No. of Feed pumps one Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work -
 No. of Bilge pumps one Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work -
 No. of Donkey Engines one Sizes of Pumps 3 x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room one 2" In Holds, &c. one 2"
3" Ejector with suction in the Engine Bilge & Discharge on deck
 No. of bilge injections one sizes 3 1/2" Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size 2" - 9" dia
 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 Yes
 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 coored
 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 Nov 1895 Is the screw shaft tunnel watertight In tunnel
 Is it fitted with a watertight door Yes worked from -

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 800 sq ft
 No. and Description of Boilers One cyl & 4 Hull Working Pressure 170 lb Tested by hydraulic pressure to 340 lb
 Date of test 24/9/95 Can each boiler be worked separately - Area of fire grate in each boiler 28 sq ft No. and Description of safety valves to
 each boiler Two Spring loaded Area of each valve 3.14 sq ft Pressure to which they are adjusted 175 lb Are they fitted
 with easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean diameter of boilers 10' 0" 9' 10"
 Length 9' 6" Material of shell plates Steel Thickness 29/32 Description of riveting: circum. seams all in lap long. seams all shop rivet
 Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 1 1/2"
 Per centages of strength of longitudinal joint 87.5 Working pressure of shell by rules 170 lb Size of manhole in shell 16" x 12"
 Size of compensating ring 28" x 29/32 No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 35"
 Length of plain part 6' 0" Thickness of plates 1 1/4" Description of longitudinal joint welded No. of strengthening rings -
 Working pressure of furnace by the rules 172 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 29/32
 Pitch of stays to ditto: Sides 8" Back 8" Top 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 171 lb
 Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 8" x 8" Working pressure by rules 185 lb End plates in steam space:
 Material Steel Thickness 19/16" Pitch of stays 15" How are stays secured all nuts Working pressure by rules 175 lb Material of stays Steel
 Diameter at smallest part 2 5/16" Area supported by each stay 15" x 14 1/2" Working pressure by rules 174 lb Material of Front plates at bottom Steel
 Thickness 7/8" Material of Lower back plate Steel Thickness 1 3/16" Greatest pitch of stays 1 1/2" Working pressure of plate by rules 170 lb
 Diameter of tubes 3 1/4" Pitch of tubes 14 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 10/16" Mean pitch of stays 9"
 Pitch across wide water spaces 13 1/2" Working pressures by rules 179 lb Girders to Chamber tops: Material Iron Depth and
 thickness of girder at centre 6" x 2 1/2" Length as per rule 27" Distance apart 7 1/2" Number and pitch of Stays in each 4" 8"
 Working pressure by rules 173 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 -

DONKEY BOILER—

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

Diameter of donkey boiler

Length

Material of shell plates

Thickness

Description of riveting long seams

Diameter 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

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. Two bottom end bolts. Two main bearing bolts. One set coupling bolts. One set dead pump valves. One set Bridge pump valves. One set Check valves. Safety Valve Spring

The vessel efficient with masts and sails as a power.

The foregoing is a correct description,

SHIPBUILDING & ENGINEERING CO. LIMITED

Manufacturer.

General Remarks

A. S. Seaton
(State quality of workmanship, opinions as to class, &c. *Workmanship good*)

The Machinery and Boiler of this Steam Power have been constructed under Special Power and placed on board in accordance with the Society's Rules. They are now in my opinion in safe working condition and the case is respectfully submitted for the notification + L.M.C. 10.95. in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 10.95.

E.S.
6.11.95.

Certificate (if required) to be sent to

Hull

The amount of Entry Fee..

£

1 : 0 :

When applied for,

Special

£

2 : 0 :

4/11/95

Donkey Boiler Fee

£

r :

When received,

Travelling Expenses (if any) £

£

9.11.95

FRL 8 NOV 1895

MACHINERY CERTIFICATE WRITTEN.

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

Committee's Minute

Assigned

+ L.M.C. 10.95



© 2019

Lloyd's Register Foundation

Dated 29

W B & L (439w)