

Glasgow No. 17902
Grimsby No 528

REPORT ON MACHINERY.

Port of Glasgow & Grimsby
 No. in Survey held at Glasgow & Grimsby Date, first Survey 24 May 1899 Last Survey 20 April 1900
 Reg. Book. S. S. "KING HENRY" (Number of Visits 10 Tons Gross 162 Net 72)
 Master F. Parsons Built at Grimsby By whom built Schofield, Hagerup & Doughty, Ld. When built 1900
 Engines made at Glasgow By whom made Muir & Houston Ltd when made 1900
 Boilers made at Grimsby By whom made Schofield, Hagerup & Doughty, Ld. when made 1900
 Registered Horse Power 46 Owners Monarch Steam Fishing Co. Ltd Port belonging to Grimsby
 Nom. Horse Power as per Section 28 46 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple expansion screw No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 11, 14, 28 Length of Stroke 30" Revs. per minute about 110 Dia. of Screw shaft 5.68 as per rule 5.68 as fitted 5.68 Lgth. of stern bush 1' 11"
 Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule 5.4 Dia. of Crank pin 5.5/8" Size of Crank webs 3 3/8" Dia. of thrust shaft under collars 5 5/8" Dia. of screw 8" 0" Pitch of screw 9" 0" to 10" 0" No. of blades 4 State whether moveable no Total surface 21 sq. ft.
 No. of Feed pumps 1 Diameter of ditto 2" Stroke 10" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 Diameter of ditto 2 1/4" Stroke 10" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines one Sizes of Pumps 5 x 2 1/2 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2" - Sea - Bilge - Howell In Holds, &c. 2" - Fish Hold

No. of bilge injections one sizes 2 1/2" Connected to condenser, or to circulating pump are pumps a separate donkey suction fitted in Engine room & size 1/2" 2" 2" also steam injection 2 1/2"
 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 none
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves & Cocks
 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 Awash
 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 One suction - Fish Hold 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 How new 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 836 sq. ft. Is forced draft fitted No
 No. and Description of Boilers one - Cylindrical Multitubular Working Pressure 180 lb per sq. in. Tested by hydraulic pressure to 360 lbs.
 Date of test 18/8/99 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 2 - Direct Spring Area of each valve 3 1/4 sq. in. Pressure to which they are adjusted 180 lb per sq. in. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2 ins Mean dia. of boilers 10' 6" Length 9' 0" Material of shell plates Steel
 Thickness 29/32" Range of tensile strength 28/32 tons Are they welded or flanged No Descrip. of riveting: cir. seams DR lap long. seams TR-double straps
 Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 7 1/2 ins Lap of plates or width of butt straps 17"
 Per centages of strength of longitudinal joint 87 Working pressure of shell by rules 183 lb per sq. in. Size of manhole in shell 16" x 12"
 Size of compensating ring Patent Ring No. and Description of Furnaces in each boiler 2 - Plain Material Steel Outside diameter 3' 3"
 Length of plain part 5' 6" Thickness of plates 3/16" Description of longitudinal joint Weld No. of strengthening rings none
 Working pressure of furnace by the rules 198 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 7/8"
 Pitch of stays to ditto: Sides 7 3/4" x 7 1/4" Back 7 3/4" x 7 3/4" Top 7 3/4" x 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 182 lb
 Material of stays Steel Area at smallest part 1.45 sq. in. Area supported by each stay 60.86 sq. in. Working pressure by rules 192 lb End plates in steam space:
 Material Steel Thickness 1 1/8" Pitch of stays 15" x 15" How are stays secured Nuts Working pressure by rules 185 lb Material of stays Steel
 Area at smallest part 4.37 sq. in. Area supported by each stay 225 sq. in. Working pressure by rules 194 lb Material of Front plates at bottom Steel
 Thickness 1 1/8" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 9 1/2" Working pressure of plate by rules 188 lb
 Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 1 1/8" Back 1 1/8" Mean pitch of stays 9"
 Pitch across wide water spaces 14" Working pressures by rules 182 lb per sq. in. Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 2' 7" x 7 1/2" Length as per rule 27" Distance apart 7 1/2" Number and pitch of Stays in each 2 - 7 3/4"
 Working pressure by rules 197 lb 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 *None*

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:— 2 each connecting rod top & bottom end bolts & nuts - 2 main bearing bolts & nuts - 1 set of coupling bolts & nuts - 6 cylinder cover studs & nuts - 6 piston bolts - 6 gland bolts & nuts - complete set of pump valves - safety & escape valve springs - condenser tubes & ferrule tube stoppers - bolts, nuts, stud iron &c

PER PRO. SCHOFIELD, HAGERUP AND DOUGHTY, LTD.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - 1899: - May 24, Sep. 28, Oct. 6, 20, Nov. 27

During erection on board vessel - 1900: - Feb. 28, May 7, 26, Apr. 3

Total No. of visits 10

General Remarks (State quality of workmanship, opinions as to class, &c. The engines of this vessel have been constructed under Special Survey, the material & workmanship are of good quality. In my opinion they are eligible to be classed in the Register Book.

The boiler has been constructed under Special Survey to the approved plan and the Secretary's letter (E) of 13/5/98. The steel has been tested as required by the Rules. The Engines and Boilers have been satisfactorily fitted on board and tried under steam. They are in good and safe working condition and eligible in my opinion, to be classed in the Register Book with record of **LMC 5.00**

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.00

14.5.00

12.5.00

The amount of Entry Fee... £6.00

Special ... £3.00

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

Fully paid

W. Dimmock & B. G. Oxford
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Assigned

TUES. 15 MAY 1900

LMC 5.00

GMS 357/100

VE

These particulars

Signal Letters (Official Number)

113, 143

No., Date, and

Whether British or Foreign Built.

British

Number of Deck

Number of Mast

Rigged ...

Stern ...

Build ...

Galleries

Head ...

Framework and vessel ...

Number of Bulk

Number of water and their cap

Total to quarter at side amid

No. of Engines

De

Triple Direct Inverted

One

Number. Iron or S Pressure

Under Tonnage

Closed-in space

Space or space

Poop ...

Forecastle

Side Round House

Other closed

Gross

Deductions, as

Regis

Name of

No. of Owners

Name, Resident

m

of

Free

Dated H

R S & Co - P7708 P781



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