

Recd from surveyor 7 JUL 1900

Class No. 18142
Glasgow 669
10

REPORT ON MACHINERY.

Port of Glasgow & Grimsby TUES. 24 JUL 1900
SAT. 28 JUL 1900

No. in Survey held at Glasgow & Grimsby Date, first survey 2 Nov 99 Last Survey 11 June 1900
 Reg. Book. 279 on the S.S. "KING JOHN" (Number of Visits 17)
 Master J. Stokes Built at Grimsby By whom built Hagerup, Doughty & Schofield 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 Ltd when made 1900
 Registered Horse Power _____ 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", 17", 28" Length of Stroke 30" Revs. per minute _____ Dia. of Screw shaft 5.68 as per rule
 Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals 5.4 as per rule 5 3/4 as fitted Dia. of Crank pin 5 5/8 Size of Crank webs 35/16 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 malleable no Total surface 31 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 3/4" Stroke 10" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines One Sizes of Pumps 5" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2" Sea Bilge, Botwell In Holds, &c. 2" Fish Hold

No. of bilge injections one sizes 2 1/2" Connected to condenser, or to circulating pumps as a separate donkey suction fitted in Engine room & size
 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 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 Away
 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 Nov 1900 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 936 sq. ft. Is forced draft fitted No
 No. and Description of Boilers One - cylindrical multitubular Working Pressure 180 lb Tested by hydraulic pressure to 360 lb
 Date of test 21/12/99 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 Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2" Mean dia. of boilers 10'6" Length 9'0" Material of shell plates Steel
 Thickness 39/32 Range of tensile strength 29-32 lbs Are they welded or flanged Neither 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" Lap of plates or width of butt straps 17"
 Per centages of strength of longitudinal joint 87% Working pressure of shell by rules 182 lb 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 5'3"
 Length of plain part 5'6" Thickness of plates 3/4" 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 None Working pressure by rules 182 lb
 Material of stays Steel Area at smallest part 1.45 sq. in. Area supported by each stay 60.06 sq. in. Working pressure by rules 192 lb End plates in steam space:
 Material Steel Thickness 1 1/16" 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 192 lb Material of Front plates at bottom Steel
 Thickness 1 1/16" Material of Lower back plate Steel Thickness 9/16" Greatest pitch of stays 9 1/2" Working pressure of plate by rules 189 lb
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 1 1/16" Back 1 1/16" Mean pitch of stays 9"
 Pitch across wide water spaces 14" Working pressures by rules 182 lb Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 2-7" x 7 1/8" 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

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

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of te

strength Descrip. of riveting ~~long~~ seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of Length 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 Descripti

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 top & bottom end & main bearing bolts & nuts; set of couple bolts & nuts; complete set of pump valves; 6 piston bolts; 6 stuffing box studs & nuts; set of escape valve springs; cylinder cover studs & nuts; condenser tubes & ferrules; stud & nuts assorted; iron of various sizes &c.

The foregoing is a correct description.

Manufacturer.

A PRO. SCHOFIELD, HAGERUP AND COMPANY, LTD.

Dates of Survey while building

During progress work in shops— 1899:— June 14— Aug 10, 21; 1900:— Nov. 2, 1900:— Mar. 16, June 4, 11.

During erection on board vessel— 1900:— May 17, July 4, 9, 16.

Total No. of visits 4 = Four, 17

Is the approved plan of main boiler forwarded herewith to donkey ..

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 when satisfactorily fitted on board. This Boiler has been constructed under Special Survey to the approved plan and the Secretary's letter (E) 13/5/98. The steel has been tested as required by the Rules. The workmanship is good. The Engines and Boiler 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 7.00 (in red)

It is submitted that this vessel is eligible for THE RECORD LMC 7.00

The amount of Entry Fee... Special Donkey Boiler Fee Travelling Expenses (if any) £

When applied for, 19/7/1900, 25/7/1900. When received, £3.0.0 p.p. 21/18.

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

TUES. 31 JUL 1900

Committee's Minute Glasgow. 23 JUL 1900

Assigned

Deferred bore completions. Wm. + LMC 7.00

GMS 357/130

VESS

These particulars

Signal Letters (if any)

Official Number. 113192

No., Date, and Port of

Whether British or Foreign Built. British

Number of Decks

Number of Masts Riggerd ... Stern ... Build ... Galleries ... Head ... Framework and de vessel ... Number of Bulkhea Number of water b and their capacity

Total to quarter th at side an ship

No. of Engines Descri

One Inverted a

Set Number... Iron or Steel Pressure wh

Under Tonnage I Closed-in spaces a Space or space Poop ... Forecastle ... House Other closed-i

Gross Deductions, as Regist

Name of

No. of Owners Name, Reside

Monarc

Manager

Dated 12

RS & Co-

Certificate (if required) to be sent to

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