

pt. 4.
received from
Surveyor.
7 - JAN. 1901

TUES. JAN 22 1901

No. 18596
966

REPORT ON MACHINERY.

TUES. JAN 15 1901

Port of Glasgow & Grimsby
 No. in Survey held at Glasgow & Grimsby Date, first Survey 21 August 1899 Received at London Office 17 January 1901
 Reg. Book. Glasgow & Grimsby Date, first Survey 4 June Last Survey 27 Nov 1900
 (Number of Visits 2)
 In Supr. on the S.S. "KING CHARLES" Tons Gross 163 Net 74
 Master H. Browning Built at Grimsby By whom built Hagerup Doughty, Schofield When built 1900
 Engines made at Glasgow By whom made Muir & Houston Lt^s when made 1900
 Boilers made at Grimsby By whom made Schofield, Hagerup & Doughty Lt^s 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 20" Revs. per minute _____ Dia. of Screw shaft as per rule 5.68 as fitted 5 3/4" Lgth. of stern bush 1" 11"
 Dia. of Tunnel shaft as per rule _____ as fitted _____ Dia. of Crank shaft journals as per rule 5.4 as fitted 5 5/8" Dia. of Crank pin 5 7/8" Size of Crank webs 3 5/8" 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 moceable 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 (2) Howell In Holds, &c. 2" Fish Hold
 No. of bilge injections one sizes 2 1/2" Connected to condenser, or to circulating pump are pump Is a separate donkey suction fitted in Engine room & size 2 1/2" also steam cylinder 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 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 Fish Hold custom 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 S) 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 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 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 182 lb sq. in. 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 9/32" Range of tensile strength 28/32 lbs Are they welded or flanged Neither Descrip. of riveting: cir. seams DR Lap long. seams TR-double strap
 Diameter of rivet holes in long. seams 1/8" Pitch of rivets 7 1/2" Lap of plates or width of butt straps 17"
 Per centages of strength of longitudinal joint rivets 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 top 5' 6" bottom 5' 10" Thickness of plates crown 3/4" bottom 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 1/4" x 7 1/4" Back 7 1/4" x 7 1/4" Top 7 1/4" x 7 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 182 lb
 Material of stays Steel Diameter 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 15/16" Pitch of stays 15" x 15" How are stays secured Nuts Working pressure by rules 185 lb Material of stays Steel
 Diameter 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 11/16" 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 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 11/16" Back 11/16" 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 1/4"
 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 _____
 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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 W869-0015

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 Rivets Thickness of shell crown plates Radius of do. No. of Stays to do.

Lap of plating Per centage of strength of joint Plates Thickness of furnace plates Description of joint

Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Working pressure of shell by rules

Working of furnace by rules Thickness of furnace crown plates Stayed by Working pressure of shell by rules

Working of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPA GEAR. State the articles supplied:— 2 each top end, bottom end & main bearing bolts & nuts, 1 set of coupling bolts & nuts, 6 piston bolts, 6 cylinder cover studs & nuts, 6 stuffing box studs & nuts, complete set of pump valves, escape & safety valve springs, assorted bolts & nuts, iron of various sizes, condenser tubes and ferrules, tube stoppers, tools &c.

The foregoing is a correct description,

ER PRO. SCHOFIELD, HAGERUP AND DOUGHTY, LTD.

MUR & HOUSTON, LIMITED.

Manufacturer.

James Stewart Secretary

Dates of Survey while building: During progress of work in shops - - - - - 1900: June 4, July 31, Sept. 10, Oct 3, 10

Total No. of visits: 7. 1899 Aug 21, 1900 Feb 2, 1901 Jan 7, 14

is the approved plan of main boiler forwarded herewith to donkey

General Remarks (State quality of workmanship, opinions as to class, &c.) These engines have been constructed under Special Survey, the material & workmanship are of good quality, and in my opinion, are eligible to be classed in the Register Book when they have been fitted on board, with the boiler at Grimsby.

This Boiler has been constructed under Special Survey. The steel has been tested as required by the Rules. The workmanship is good.

The Engines and Boiler have been satisfactorily fitted on board the vessel and tried under steam. They are eligible, in my opinion, to be classed in the Register Book with record of LMC 11-00 last survey June 1901

The Boiler is in accordance with the approved plan and the Secretary's letter (E) of 13/5/98.

It is submitted that this vessel is eligible for THE RECORD. LMC. 1-00.

J.W. Dimmock
22-1-01

The amount of Entry Fee, £ 5 :
Special £ 3 :
Donkey Boiler Fee £ :
Travelling Expenses (if any) £ :

When applied for, 11/11/00
When received, 13/5/01

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

Committee's Minute Glasgow. 14 JAN. 1901

Assigned Deferral for completion

Certificate (if required) to be sent to Grimsby Office

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

