

REPORT ON BOILERS.

No. 17326

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Date of writing Report 25 June 1918 When handed in at Local Office 1 July 1918 Port of GreenockNo. in Survey held at Greenock Date, First Survey 2nd October, 1916; Last Survey 5 July 1918.
Reg. Book. (Number of Visits) Gross 5334.24
on the Steel Steamer "Argowan" Tons Net 3415.02Master Built at Stn Glasgow By whom built W Hamilton & Co When built 1918
Engines made at Greenock By whom made John G. Kincaid & Co. Ltd. when made 1918
Boilers made at Greenock By whom made John G. Kincaid & Co. Ltd. when made 1918
Registered Horse Power Owners And Steamers Ltd. Port belonging to GreenockMULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Glasgow Iron & Steel Co. Ltd.(Letter for record Q) Total Heating Surface of Boilers 563 sq ft Is forced draft fitted Yes No. and Description ofBoilers One single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 30/5/18No. of Certificate 1348 Can each boiler be worked separately Yes Area of fire grate in each boiler 50.7 sq ft No. and Description ofsafety valves to each boiler Two spring Area of each valve 5.94 sq in Pressure to which they are adjusted 105 lbAre they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler YesSmallest distance between boilers or uptakes and bunkers or woodwork 10 in Mean dia. of boilers 10.6 in Length 9.6 inMaterial of shell plates Steel Thickness 10/16 in Range of tensile strength 28-32 Are the shell plates welded or flanged YesDescrip. of riveting: cir. seams Yes long. seams Lap steel riv Diameter of rivet holes in long. seams 19/16 in Pitch of rivets 4 1/2 inLap of plates or width of butt straps 6 3/8 in Per centages of strength of longitudinal joint rivets 83.4 Working pressure of shell by plate 77.16rules 103 lb Size of manhole in shell 16 in dia Size of compensating ring Flanged 1 1/2 in No. and Description of Furnaces in eachboiler Two main Material Steel Outside diameter 38 in Length of plain part top 70 3/16 in Thickness of plates crown 17/32 in bottom 17/32 inDescription of longitudinal joint Butted No. of strengthening rings Yes Working pressure of furnace by the rules 115 lb Combustion chamberplates: Material Steel Thickness: Sides 17/32 in Back 17/32 in Top 17/32 in Bottom 14/16 in Pitch of stays to ditto: Sides 10 1/4 in Back 9 1/2 in Top 10 1/4 in Bottom 9 1/2 inIf stays are fitted with nuts or riveted heads Yes Working pressure by rules 100 lb Material of stays Steel Diameter atsmallest part 1.01 in Area supported by each stay 80.6 sq in Working pressure by rules 100 lb End plates in steam space: Material Steel Thickness 27/32 inPitch of stays 21 1/2 in How are stays secured By nuts Working pressure by rules 100 lb Material of stays Steel Diameter at smallest part 5.77 inArea supported by each stay 1980 sq in Working pressure by rules 109 lb Material of Front plates at bottom Steel Thickness 27/32 in Material ofLower back plate Steel Thickness 27/32 in Greatest pitch of stays 14 in Working pressure of plate by rules 177 lb Diameter of tubes 3 1/4 inPitch of tubes 4 1/2 in Material of tube plates Steel Thickness: Front 27/32 in Back 1 1/2 in Mean pitch of stays 18 1/2 in Pitch across widewater spaces 14 in Working pressures by rules 111 lb Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 6 1/4 in x 14 in Length as per rule 27 1/2 in Distance apart 10 1/4 in Number and pitch of Stays in each Two 7 1/2 inWorking pressure by rules 100 lb Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler workedseparately Yes Diameter 10 in Length 10 in Thickness of shell plates 10/16 in Material Steel Description of longitudinal joint Butted Diam. of rivetholes 10 in Pitch of rivets 4 in Working pressure of shell by rules 100 lb Diameter of flue 10 in Material of flue plates Steel Thickness 10/16 inIf stiffened with rings Yes Distance between rings 10 in Working pressure by rules 100 lb End plates: Thickness 10/16 in How stayed By staysWorking pressure of end plates 100 lb Area of safety valves to superheater 100 lb Are they fitted with easing gear YesThe foregoing is a correct description,
FOR JOHN G. KINCAID & COY., LIMITED.
Robert Green. Manufacturer.Dates of Survey During progress of (1916) Oct. 2, Nov. 10, 17, (1917) Jan. 7, 16, 31, Feb. 16, Mar. 9, 12, 15, Apr. 24. Is the approved plan of boiler forwarded here Yes
work in shops - - - May 24, Aug. 28, 30, Oct. 17, 26, 29, 30, Dec. 13, 17, (1918) Jan. 21, Feb. 20, 22, Mar. 6, 8, 13, 18, 20, 21, 26, 28, Apr. 2, 3, 5, 11, 15, 17, 19, 23, 26, May 1.
while building During erection on board vessel - - - 2, 5, 7, 9, 17, 23, 29, 31, June 3, 5, 7, 11, 12, 18. Total No. of visits 55GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good.

This Donkey Boiler has been constructed under special survey in accordance with the approved Rules. Tested by hydraulic pressure and found good. It has now been apparently fitted on board the above named Steamer.

Survey Fee ... £ 19 : When applied for. 19
Travelling Expenses (if any) £ 19 : When received. 19James James.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.Committee's Minute GLASGOW. 9 JUL 1918Assigned See attached machinery report

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Foundation