

REPORT ON MACHINERY.

Port of *Aberdeen*Received at London Office **WED. 2 AUG 1905**Survey held at *Aberdeen*Date, first Survey *14th Nov 1904* Last Survey *31st July* 1905on the *S.S. "Ballochbuie"*(Number of Visits *60*)Tons { Gross *889.65*
Net *392.99*
When built *1905*J. Falconer Built at *Aberdeen*By whom built *John Butchie Lorry & Co.*made at *Aberdeen*By whom made *J. Abernethy & Co.*when made *1905*made at *—*By whom made *—*when made *1905*ed Horse Power *115*Owners *The Aberdeen Line Co. Ltd.*Port belonging to *Aberdeen*Horse Power as per Section 28 *153.04*Is Refrigerating Machinery fitted ☒Is Electric Light fitted ☒

ES, &c.—Description of Engines

*Triple expansion*No. of Cylinders *3*No. of Cranks *3*Cylinders *18-29-48* Length of Stroke *3.3* Revs. per minute ☒ Dia. of Screw shaft *9.99* as per rule *10* as fitted *10* Length of stern bush *42*Tunnel shaft *9.95* as per rule *9.405* as fitted *9.4* Dia. of Crank shaft journals *9.4* as per rule *9.4* as fitted *9.4* Dia. of Crank pin *9.4* Size of Crank webs *15.5* Dia. of thrust shaft under*9.4* Dia. of screw *12-0* Pitch of screw *13-6* No. of blades *4* State whether moveable ☒ Total surface *46*Feed pumps *2* Diameter of ditto *3.4* Stroke *18* Can one be overhauled while the other is at work ☒Bilge pumps *2* Diameter of ditto *3.4* Stroke *18* Can one be overhauled while the other is at work ☒Donkey Engines *2* Sizes of Pumps *Feed 6x4x6* *Ballast 8x8x10* No. and size of Suctions connected to both Bilge and Donkey pumpsIn Holds, &c. *No 1, 2 & 3 holds 2-3' in each*Engine Room *30ft 3"*Stern Well *1-3"* Is a separate donkey suction fitted in Engine room & size *Yes, 3"*Are the roses in Engine room always accessible ☒ Are the sluices on Engine room bulkheads always accessible ☒Connections with the sea direct on the skin of the ship ☒ Are they Valves or Cocks *Both*Are the discharge pipes above or below the deep water line *Above*Are the blow off cocks fitted with a spigot and brass covering plate ☒How are they protected *Strong wood casing*Pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times ☒Bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges ☒Stern tube, propeller, screw shaft, and all connections examined in dry dock *Before launch* Is the screw shaft tunnel watertight ☒Is the screw shaft tunnel watertight ☒ worked from *Top platform*ES, &c.— (Letter for record *2*) Total Heating Surface of Boilers *2491.5* Is forced draft fitted ☒Description of Boilers *One Cylindrical Multi-tubular* Working Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs*Can each boiler be worked separately ☒ Area of fire grate in each boiler *73* No. and Description of safety valves to*2: Spring loaded* Area of each valve *7.07* Pressure to which they are adjusted *185 lbs* Are they fitted with easing gear ☒Distance between boilers or uptakes and bunkers or woodwork *No side bunkers* Dia. of boilers *16-0* Length *10-6* Material of shell plates *S*Range of tensile strength *27-32* Are they welded or flanged ☒ Descrip. of riveting: cir. seams *D.R. lap* long. seams *D. 3/2 straps*Rivet holes in long. seams *1 1/16* Pitch of rivets *8 3/4* Lap of plates or width of butt straps *1-4*Working pressure of shell by rules *182 lbs* Size of manhole in shell *16 x 12*Material of shell plates *S* Outside diameter *44*Main part *top* Thickness of plates *9* Description of longitudinal joint *Weld* No. of strengthening rings *32*Pressure of furnace by the rules *200 lbs* Combustion chamber plates: Material *S* Thickness: Sides *5/8* Back *5/8* Top *5/8* Bottom *5/8*If stays are fitted with nuts or riveted heads *Nuts & washers* Working pressure by rules *186.8*Diameter at smallest part *1 5/8* Area supported by each stay *68* Working pressure by rules *232 lbs* End plates in steam space:Thickness *1 1/16* Pitch of stays *1 1/2 x 15 1/2* How are stays secured *D. 3/2 Nuts & washers* Working pressure by rules *195 lbs* Material of stays *S*Area supported by each stay *241.25* Working pressure by rules *186 lbs* Material of Front plates at bottom *S*Material of Lower back plate *S* Thickness *1 1/16* Greatest pitch of stays *15 x 1 1/2* Working pressure of plate by rules *230 lbs*Material of tube plates *S* Thickness: Front *1 1/16* Back *1 1/16* Mean pitch of stays *9 x 1 1/4*Working pressures by rules *F. 190 B 229* Girders to Chamber tops: Material *S* Depth andLength as per rule *30.56* Distance apart *4* Number and pitch of Stays in each *2: 8 1/2*Superheater or Steam chest; how connected to boiler ☒ Can the superheater be shut off and the boiler workedDiameter ☒ Length ☒ Thickness of shell plates ☒ Material ☒ Description of longitudinal joint ☒ Diam. of rivetPitch of rivets ☒ Working pressure of shell by rules ☒ Diameter of flue ☒ Material of flue plates ☒ Thickness ☒Distance between rings ☒ Working pressure by rules ☒ End plates: Thickness ☒ How stayed ☒Area of safety valves to superheater ☒ Are they fitted with easing gear ☒

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