

REPORT ON MACHINERY.

No. 17360.

Writing Report *10 Oct 1918* When handed in at Local Office *12 Oct 1918* Port of *Greenock*
 in Survey held at *Port Glasgow Greenock* Date, First Survey *27th April, 1917*, Last Survey *10th October, 1918*
 Book. on the *Steel Steamer Ardgoon* (Number of Visits *96*)

ter 'S. Yates. Built at *Port Glasgow* By whom built *Russell & Co* Tons { Gross *488 1/2*
 Net *3104.44*
 When built *1918*

ines made at *Greenock* By whom made *Hankin & Blackmore Ltd* when made *1918*
 ers made at *Greenock* By whom made *Hankin & Blackmore Ltd* when made *1918*

istered Horse Power Owners *Steamship Ardgoon Co. Ltd.* Port belonging to *Greenock*
 Horse Power as per Section 28 *488.489* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

INES, &c.—Description of Engines *Triple Compound* No. of Cylinders *Three* No. of Cranks *Three*
 of Cylinders *26-43-70* Length of Stroke *48* Revs. per minute *70* Dia. of Screw shaft *as per rule 14.68* Material of *Steel*
 he screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tight

he propeller boss *Yes* If the liner is in more than one length are the joints burned *No* If the liner does not fit tightly at the part
 een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *No* If two
 rs are fitted, is the shaft lapped or protected between the liners *No*

of Tunnel shaft *as per rule 13.03* Dia. of Crank shaft journals *as per rule 13.68* Dia. of Crank pin *13 1/4* Size of Crank webs *25 1/2* Dia. of thrust shaft under
 rs *13 1/4* Dia. of screw *17.6* Pitch of Screw *16:0* No. of Blades *4* State whether moveable *No* Total surface *96 sq ft*

of Feed pumps *Two* Diameter of ditto *4* Stroke *26* Can one be overhauled while the other is at work *Yes*
 of Bilge pumps *Two* Diameter of ditto *4 1/2* Stroke *26* Can one be overhauled while the other is at work *Yes*
 of Donkey Engines *Three* Sizes of Pumps *12-12-5 1/2-8-4 1/2-6* No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room *Three 3 1/2* In Holds, &c. *Two 3 1/2* Tunnel *2 1/2*
 of Bilge Injections *One* sizes *6 1/4* Connected to condenser, or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size *7 1/2*
 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*

all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *both*
 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*
 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*

at pipes are carried through the bunkers *Yes* How are they protected *No*
 e all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 e the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*

the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Top Station*
 ILERS, &c.—(Letter for record *S*) Manufacturers of Steel *Beam & Co*

tal Heating Surface of Boilers *7345 1/2* Is Forced Draft fitted *Yes* No. and Description of Boilers *Three Single Ended*
 orking Pressure *180 lb* Tested by hydraulic pressure to *260 lb* Date of test *28/6/18* No. of Certificate *1553*
 in each boiler be worked separately *Yes* Area of fire grate in each boiler *56 1/2 sq ft* No. and Description of Safety Valves to

ch boiler *Two Spring* Area of each valve *11.04 sq in* Pressure to which they are adjusted *185 lb* Are they fitted with easing gear *Yes*
 allest distance between boilers or uptakes and bunkers or woodwork *10* Mean dia. of boilers *15.0* Length *11.6* Material of shell plates *Steel*
 hickness *1 1/4* Range of tensile strength *28 1/2-32* Are the shell plates welded or flanged *Yes* Descrip. of riveting: cir. seams *DR, L*

ing. seams *all on top* Diameter of rivet holes in long. seams *1 1/4* Pitch of rivets *9/16* Lap of plates or width of butt straps *18 1/2*
 er centages of strength of longitudinal joint *92.7* Working pressure of shell by rules *182 lb* Size of manhole in shell *16-12*
 ze of compensating ring *30 1/2-36 1/2-1 1/4* No. and Description of Furnaces in each boiler *3 Brighton* Material *Steel* Outside diameter *47 1/2*

length of plain part *top 9 1/2 bottom 9 1/2* Thickness of plates *9/16* Description of longitudinal joint *welded* No. of strengthening rings *6 ring*
 orking pressure of furnace by the rules *186 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *4 1/2* Back *4 1/2* Top *4 1/2* Bottom *12 1/2*

itch of stays to ditto: Sides *9 1/2-8 1/2* Back *9 1/2-8 1/2* Top *9 1/2-8 1/2* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *182 lb*
 Material of stays *Steel* Area at smallest part *1.77 sq in* Area supported by each stay *77.5 sq in* Working pressure by rules *183 lb* End plates in steam space:

Material *Steel* Thickness *1 1/4* Pitch of stays *22-18 1/2* How are stays secured *all nut* Working pressure by rules *184 lb* Material of stays *Steel*
 Area at smallest part *7.24 sq in* Area supported by each stay *415.0 sq in* Working pressure by rules *182 lb* Material of Front plates at bottom *Steel*

Thickness *1 1/4* Material of Lower back plate *Steel* Thickness *1 1/4* Greatest pitch of stays *15 1/2* Working pressure of plate by rules *186 lb*
 Diameter of tubes *2 1/2* Pitch of tubes *4-3 1/2* Material of tube plates *Steel* Thickness: Front *1 1/4* Back *1 1/4* Mean pitch of stays *9.81*

itch across wide water spaces *13 1/2* Working pressures by rules *222 lb* Girders to Chamber tops: Material *Steel* Depth and
 hickness of girder at centre *9 1/2-1 1/2* Length as per rule *34.95* Distance apart *9 1/2* Number and pitch of stays in each *Two 8 1/2*

Working pressure by rules *181 lb* Steam dome: description of joint to shell *No* % of strength of joint
 Diameter *No* Thickness of shell plates *No* Material *No* Description of longitudinal joint *No* Diam. of rivet holes *No*

Pitch of rivets *No* Working pressure of shell by rules *No* Crown plates *No* Thickness *No* How stayed *No*
 PERHEATER. Type *No* Date of Approval of Plan *No* Tested by Hydraulic Pressure to *No*

Date of Test *No* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *No*
 Diameter of Safety Valve *No* Pressure to which each is adjusted *No* Is Easing Gear fitted *No*

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