

REPORT ON MACHINERY.

No. 8154
MON. 7-JUL. 1919

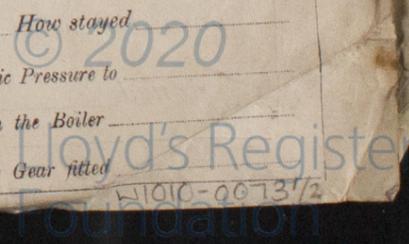
Received at London Office
 Date of writing Report 30th June 19 When handed in at Local Office Belfast Port of Belfast
 No. in Survey held at Belfast Date, First Survey 1st Oct 1918 Last Survey 26th June 1919
 Reg. Book. S.P. Sallygally Head (Number of Visits 48) Tons Gross 5179
 on the Sallygally Head Net 3166 When built 1919
 Master Belfast Built at Belfast By whom built Workman Clark & Coy L^{td} when made -
 Engines made at Belfast By whom made - when made -
 Boilers made at - By whom made - when made -
 Registered Horse Power 518 Owners Ulster Steamship Coy L^{td} Port belonging to Belfast
 Nom. Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Single Screw Triple Expansion of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27"-44"-73" Length of Stroke 48" Revs. per minute 78 Dia. of Screw shaft 14.7" Material of I. Steel
 as per rule 14.6" as fitted 15.5" screw shaft
 Is the 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
 in the propeller boss Yes If the liner is in more than one length are the joints burned ✓ If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two
 liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 60 1/2"
 Dia. of Tunnel shaft 13.3" Dia. of Crank shaft journals 13.9" Dia. of Crank pin 14 1/2" Size of Crank web 28" x 9" Dia. of thrust shaft under
 collars 14 1/2" Dia. of screw 17.6" Pitch of Screw 16-6" No. of Blades 4 State whether moccable Yes Total surface 87 sq ft.
 No. of Feed pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines See above No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4-3 1/2" In Holds, &c. 19-3 1/2" 3-3" 4-2 1/2"
 No. of Bilge Injections 1 sizes 12" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes-3 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 ✓
 Are all connections with the sea direct on the skin of the ship Yes-Except manhole tank inspection Valves or Cocks Both
 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 Below
 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 Fore hold suction 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
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform E. Room

BOILERS, &c.—(Letter for record S) Manufacturers of Steel David Salbot Steel Coy L^{td}
 Total Heating Surface of Boilers 7668 sq ft Forced Draft fitted Yes No. and Description of Boilers 3 Single End Cylin^d
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 16-5-19 No. of Certificate 543
 Can each boiler be worked separately Yes Area of fire grate in each boiler 63 1/2 sq ft. No. and Description of Safety Valves to
 each boiler 2-Direct Spring Area of each valve 9.62 sq Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2 ft dia. of boilers 15.6" Length 11.6" Material of shell plates Steel
 Thickness 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Loose Riv^{ts}
 long. seams Butt Lap Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9 1/2" Lap of plates or width of butt straps 19 1/2"
 Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by rules 182 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring Plate flange and Description of Furnaces in each boiler 3 Lighten Material Steel Outside diameter 50 3/16"
 Length of plain part top 5" bottom 8" Thickness of plates crown 3/32" Description of longitudinal joint Weld No. of strengthening rings ✓
 Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material Steel Thickness: Sides 3/32" Back 1/16" Top 23/32" Bottom 23/32"
 Pitch of stays to ditto: Sides 10 1/2" x 9 1/4" Back 9 1/2" x 8 1/4" If stays are fitted with nuts or riveted heads Into inside Working pressure by rules 180 lbs
 Material of stay Steel Area at smallest part 2.30 x 3.4 Area supported by each stay 98 1/4 sq Working pressure by rules 186 lbs and plates in steam space:
 Material Steel Thickness 1/32" Pitch of stays 21 1/2" x 21 1/2" How are stays secured Nuts Working pressure by rules 180 lbs Material of stays Steel
 Area at smallest part 8.29 sq Area supported by each stay 459 1/8 sq Working pressure by rules 187 lbs Material of Front plates at bottom Steel
 Thickness 7/8" Material of Lower back plate Steel Thickness 27/32" Greatest pitch of stays 13 5/8" Working pressure of plate by rules 189 lbs
 Diameter of tubes 2 1/4" Pitch of tubes 4" x 3 1/8" Material of tube plate Steel Thickness: Front 3/32" Back 1/4" Mean pitch of stays 12" x 7 1/4"
 Pitch across wide water spaces 13 5/8" Working pressures by rules 181 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 10" x (7/8" x 2) Length as per rule 35 1/2" Distance apart 10 1/8" Number and pitch of stays in each 3-9 1/4"
 Working pressure by rules 182 lbs Steam dome: description of joint to shell ✓ % of strength of joint -
 Diameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -
 Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

SUPERHEATER. Type - Date of Approval of Plan - Tested by Hydraulic Pressure to -
 Date of Test - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -
 Diameter of Safety Valve - Pressure to which each is adjusted - Is Easing Gear fitted -

If not, state whether, and when, one will be sent



Belfast

30th June (1919) the

S.S. Ballygalley Head

Auxiliary Pumps

- 2 Main Feed pumps 8" x 10 1/2" x 21"
- 1 General Service - 7" x 5" x 8"
- 1 Ballast - 9" x 11" x 10"

Principal items Spare Gear

- 4 Connecting Rod top & bottom end bolts & nuts
- 2 Main bearings - - -
- 2 Bottom end bushes
- Set coupling bolts
- Set Feed & Bilge pump valves
- 6 Cauder feed Check valves
- 2 Propeller blades (C. Iron)
- Spare metallic packing for piston glands
- 12 Condenser tubes & 50 perunnels
- 6 Air pump valves
- Feed pump escape valve & springs
- Filter basket & ear fibres
- Five bars, baffle plates etc
- Spare gear for aux^y pumps.
- Studs, nuts, bolts, pins etc.

R. M. Bennett

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