

REPORT ON MACHINERY.

No. 39441

Received at London Office

Date of writing Report 19 When handed in at Local Office 9/12/1919 Port of **GLASGOW**
 No. in Survey held at **Alloa** Date, First Survey 10/1/19 Last Survey 3/12/1919
 Reg. Book. on the **S/S 'Goodig'** (Number of Visits 27) Tons Gross 449 Net 338
 Master Built at **Alloa** By whom built **T. & J. S. B. E. C. (Jeffrey Yard) 201** When built 1919
 Engines made at **Alloa** By whom made **T. & J. S. B. E. C. (Jeffrey Yard) 201** when made 1919
 Boilers made at **Glasgow** By whom made **D. Rowan & Co. (9: 3288)** when made 1919
 Registered Horse Power Owners **Stou. Rolfe** Port belonging to
 Nom. Horse Power as per Section 28 **127** Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **No**

ENGINES, &c.—Description of Engines **Triple Expansion** No. of Cylinders **3** No. of Cranks **3**
 Dia. of Cylinders **16" 26 1/2" - 44"** Length of Stroke **30"** Revs. per minute **90** Dia. of Screw shaft as per rule **9 1/4"** Material of screw shaft **S**
 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 **39"**
 Dia. of Tunnel shaft as per rule **8 1/2"** Dia. of Crank shaft journals as per rule **8 3/4"** Dia. of Crank pin **8 3/4"** Size of Crank webs **6" x 14"** Dia. of thrust shaft under collars **8 1/2"** Dia. of screw **11-6"** Pitch of Screw **13-0"** No. of Blades **4** State whether moveable **No** Total surface **45 1/2"**
 No. of Feed pumps **2** Diameter of ditto **3"** Stroke **15"** Can one be overhauled while the other is at work **Yes**
 No. of Bilge pumps **2** Diameter of ditto **3 1/4"** Stroke **15"** Can one be overhauled while the other is at work **Yes**
 No. of Donkey Engines **2** Sizes of Pumps **6" x 4" 1/4" 6" 7" x 7" 8"** No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room **2. 2 1/2"** In Holds, &c. **2. 2 1/2"**

No. of Bilge Injections **1** sizes **5"** Connected to **—** circulating pump **—** Is a separate Donkey Suction fitted in Engine room & size **Yes 3"**
 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 **On Stole.** Are they Valves or Cocks **Valves**
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates **Yes** Are the Discharge Pipes above **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 **Bilge 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**
 Dates of examination of completion of fitting of Sea Connections **18-9-19** of Stern Tube **18-9-19** Screw shaft and Propeller **18-9-19**
 Is the Screw Shaft Tunnel watertight **No** Is it fitted with a watertight door **—** worked from **—**

OILERS, &c.—(Letter for record **S**) Manufacturers of Steel
 Total Heating Surface of Boilers **2128 1/2** Is Forced Draft fitted **No** No. and Description of Boilers **2 Single Ended**
 Working Pressure **180** Tested by hydraulic pressure to **360** Date of test **18-6-19** No. of Certificate **14787**
 Can each boiler be worked separately **Yes** Area of fire grate in each boiler **33 1/2** No. and Description of Safety Valves to each boiler **Double Spring** Area of each valve **397"** Pressure to which they are adjusted **185** Are they fitted with easing gear **Yes**
 Smallest distance between boilers or uptakes and bunkers or woodwork **4-6"** Mean dia. of boilers **11 1/4"** Length **10 1/2"** Material of shell plates
 Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:
 Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of stays
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
 Working pressure by rules Superheater or Steam chest; how connected to boiler 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
 holes 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

Water Capacity
Tons
49
10

4.25. Aug 2

33.

