

REPORT ON BOILERS.

No. 28223

Date of writing Report 19 When handed in at Local Office 3rd Dec 1921 Port of SUNDERLAND. Received at London Office TUE. 13 DEC. 1921

No. in Survey held at **SUNDERLAND.** Date, First Survey **1921** Last Survey **Dec 1921**
 Reg. Book. on the **5/5 "BRITISH CHANCELLOR"** (Number of Visits **1**)
 Gross Tons **708 7/8** Net Tons **422 1/4**
 Built at **Sunderland** By whom built **Indgas Engineering Co. Ltd** When built **1921**
 Engines made at **Sunderland** By whom made **Messrs G. Clark Ltd (1123)** When made **1921**
 Boilers made at **Sunderland** By whom made **Messrs G. Clark Ltd (1123 1/2)** When made **1921**
 Registered Horse Power **1000** Owners **British Tanker Co. Ltd.** Port belonging to **London**

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel **Spencer & Sons**

Letter for record **S** Total Heating Surface of Boilers **1798 sq ft** Is forced draft fitted **no** No. and Description of Boilers **One single ended** Working Pressure **120 lbs** Tested by hydraulic pressure to **240 lbs** Date of test **29.7.21**
 No. of Certificate **3771** Can each boiler be worked separately **yes** Area of fire grate in each boiler **oil only** No. and Description of Safety valves to each boiler **2 Spring valves** Area of each valve **4.43 sq in** Pressure to which they are adjusted **125 lbs**
 Are they fitted with easing gear **yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **No**
 Smallest distance between boilers or uptakes and bunkers or woodwork **No bunkers in way boiler** dia. of boilers **10' 0"** Length **10' 0"**
 Material of shell plates **S** Thickness **3/8** Range of tensile strength **28-32** Are the shell plates welded or flanged **No**
 Description of riveting: cir. seams **Lap d. riv.** long. seams **d. h. d. riv.** Diameter of rivet holes in long. seams **15/16** Pitch of rivets **3 3/8**
 Width of butt straps **9 1/2** Per centages of strength of longitudinal joint rivets **77** Working pressure of shell by rules **126**
 Size of manhole in shell **12 x 16** Size of compensating ring **8 1/2 x 7/8** No. and Description of Furnaces in each boiler **2 Brighton** Material **S** Outside diameter **37"** Length of plain part **top - bottom -** Thickness of plates **crown 3/8 bottom 5/8**
 Description of longitudinal joint **welded** No. of strengthening rings **1** Working pressure of furnace by the rules **136** Combustion chamber
 Material **S** Thickness: Sides **5/8** Back **5/8** Top **5/8** Bottom **5/8** Pitch of stays to ditto: Sides **9 x 10 3/4** Back **9 1/2 x 8 1/2**
 If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **124** Material of stays **S** Area at smallest part **1.44 sq in** Area supported by each stay **80.75 sq in** Working pressure by rules **142** End plates in steam space: Material **S** Thickness **1 1/8**
 How are stays secured **d. riv.** Working pressure by rules **122** Material of stays **S** Area at smallest part **4.43 sq in**
 Area supported by each stay **36.1 sq in** Working pressure by rules **127** Material of Front plates at bottom **S** Thickness **1 1/8** Material of
 Front back plate **S** Thickness **1 1/8** Greatest pitch of stays **14 1/2** Working pressure of plate by rules **260** Diameter of tubes **3**
 Material of tube plates **S** Thickness: Front **1 1/8** Back **1/8** Mean pitch of stays **22 3/4 x 8 1/4** Pitch across wide
 Working pressures by rules **206** Girders to Chamber tops: Material **S** Depth and thickness of
 Girders at centre **6 x 1 1/2** Length as per rule **25 1/2** Distance apart **10 3/4** Number and pitch of Stays in each **2. 9"**
 Working pressure by rules **125** Steam dome: description of joint to shell **---** % of strength of joint **---**
 Thickness of shell plates **---** Material **---** Description of longitudinal joint **---** Diam. of rivet holes **---**
 Working pressure of shell by rules **---** Crown plates **---** Thickness **---** How stayed **---**

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

The foregoing is a correct description,
FOR GEORGE CLARK LIMITED Manufacturer.

During progress of work in shops - - - **Please see report on Machinery.** Is the approved plan of boiler forwarded herewith **---**
 During erection on board vessel - - - Total No. of visits **---**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The donkey boiler for this vessel has been built under special survey, the materials and workmanship are sound and good and the boiler has been fitted and fixed on board in a satisfactory manner.

Survey Fee ... £ 5 : 6 : } When applied for, **1st Dec 1921**
 Travelling Expenses (if any) £ : : } When received, **16.12.21**

Committee's Minute **FRI 16 DEC. 1921** Engineer Surveyor to Lloyd's Register of Shipping. **G. S. Clark**

