

REPORT ON BOILERS.

No. 78603

Received at London Office 5 DEC 1924

Date of writing Report 1924 When handed in at Local Office 4/12/1924 Port of **NEWCASTLE-ON-TYNE.**
 No. in Survey held at Date, First Survey 31st Jan Last Survey 2nd Dec 1924
 eg. Book. (Number of Visits) Gross Tons Net Tons
 on the **S.S. "BRITISH CONSUL"**
 Built at **London** By whom built **Palmer & Co Ltd** When built **1924**
 Engines made at **London** By whom made **Palmer & Co Ltd** When made **1924**
 Boilers made at **London** By whom made **Palmer & Co Ltd** When made **1924**
 Registered Horse Power Owners **British Tanker Co Ltd.** Port belonging to **London**

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Palmer & Co Ltd**
 Matter for record **S.** Total Heating Surface of Boilers **1093** Is forced draft fitted **No** No. and Description of
 Boilers **One 6 ft. multi** Working Pressure **120** Tested by hydraulic pressure to **235** Date of test **3/9/24**
 No. of Certificate **9853** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **10.5** No. and Description of
 Safety valves to each boiler **2 Spring loaded** Area of each valve **7.068** Pressure to which they are adjusted **125**
 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 **Fitted a deck** Mean dia. of boilers **10.5** Length **10.5**
 Material of shell plates **Steel** Thickness **3/32** Range of tensile strength **28/32** Are the shell plates welded or flanged **No**
 Descrip. of riveting: cir. seams **DR** long. seams **TR** Diameter of rivet holes in long. seams **7/8** Pitch of rivets **4 1/8**
 Gap of plates or width of butt straps **1-1 1/4** Per centages of strength of longitudinal joint **91.6** Working pressure of shell by
 Rules **124.5** Size of manhole in shell **20 x 16** Size of compensating ring **3 1/2 x 30 x 3 1/2** No. and Description of Furnaces in each
 Boiler **2** Material **Steel** Outside diameter **3-1 1/2** Length of plain part **10** Thickness of plates **3/32**
 Description of longitudinal joint **Welded** No. of strengthening rings **1** Working pressure of furnace by the rules **155.5** Combustion chamber
 Plates: Material **Steel** Thickness: Sides **3/32** Back **3/32** Top **3/32** Bottom **3/32** Pitch of stays to ditto: Sides **10 x 10** Back **11 x 9 1/2**
 on **8 1/2 x 10** If stays are fitted with nuts or riveted heads **Yes** Working pressure by rules **121.5** Material of stays **Steel** Area at
 smallest part **1.358** Area supported by each stay **104.5** Working pressure by rules **120** End plates in steam space: Material **Steel** Thickness **1/32**
 Pitch of stays **9 x 23.5** How are stays secured **Welded** Working pressure by rules **120** Material of stays **Steel** Area at smallest part **2 3/8**
 Area supported by each stay **446.5** Working pressure by rules **123** Material of Front plates at bottom **Steel** Thickness **3/32** Material of
 lower back plate **Steel** Thickness **3/4** Greatest pitch of stays **14 1/2 x 11** Working pressure of plate by rules **139** Diameter of tubes **3**
 Pitch of tubes **4 1/2 x 4 1/2** Material of tube plates **Steel** Thickness: Front **3/32** Back **3/32** Mean pitch of stays **10.5** Pitch across wide
 water spaces **14 1/2 x 8 1/2** Working pressures by rules **150.5** Girders to Chamber tops: Material **Steel** Depth and thickness of
 order at centre **6 x 1** Length as per rule **25.7** Distance apart **8 1/2** Number and pitch of Stays in each **2 x 10**
 Working pressure by rules **124** 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 **—**
PERHEATER. 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 **—**

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel
 Made at **—** By whom made **—** When made **—** Where fixed **—** Working pressure **—**
 Tested by hydraulic pressure to **—** Date of test **—** No. of Certificate **—** Fire grate area **—** Description of safety valves **—**
 No. of safety valves **—** Area of each **—** Pressure to which they are adjusted **—** If fitted with easing gear **—** If steam from main boilers can
 enter the donkey boiler **—** Dia. of donkey boiler **—** Length **—** Material of shell plates **—** Thickness **—** Range of tensile
 strength **—** Descrip. of riveting long. seams **—** Dia. of rivet holes **—** Whether punched or drilled **—** Pitch of rivets **—**
 No. of plating **—** Per centage of strength of joint **—** Rivets **—** Working pressure of shell by rules **—** Thickness of shell crown plates **—**
 Dia. of do. **—** No. of Stays to do. **—** Dia. of stays **—** Diameter of furnace Top **—** Bottom **—** Length of furnace **—**
 Thickness of furnace plates **—** Description of joint **—** Working pressure of furnace by rules **—** Thickness of furnace crown
 plates **—** Radius of do. **—** Stayed by **—** Diameter of uptake **—** Thickness of uptake plates **—**
 Thickness of water tubes **—**

The foregoing is a correct description,
 Signed **Palmer & Co Ltd** Manufacturer.

During progress of
 work in shops —
 During erection on
 board vessel —
 Total No. of visits

Is the approved plan of main boiler forwarded herewith

W1124-0263

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey of the materials & workmanship are good. On completion the boiler was tested by hydraulic pressure to 250 lbs & found sound & tight. For recommendation regarding notation see machinery report.

NEWCASTLE-ON-TYNE.

Certificates (if required) to be sent to Committee's Minute.

| | | |
|--------------------------------|----|-------------------|
| The amount of Entry Fee .. £ | 10 | When applied for. |
| Special £ | 10 | When received. |
| Donkey Boiler Fee £ | 10 | When received. |
| Travelling Expenses (if any) £ | 10 | When received. |

Committee's Minute

10

9 DEC 1924

Assigned

See other report

Shaworth
Engineer Surveyor to Lloyd's Register of Shipping



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