

# REPORT ON BOILERS.

No. 75999

Received at London Office WED. OCT. 4 1922  
NEWCASTLE-ON-TYNE

Date of writing Report 25. 9 1922 When handed in at Local Office 3. 10 1922 Port of  
No. in Survey held at WALKER ON TYNE Date, First Survey 6 July 1921 Last Survey 29 Sept. 1922  
Reg. Book. on the STEEL SCREW STEAMER BRITISH GUNNER 1130  
Builder Built at WALKER By whom built SWAN, HUNTER, WIGHAM RICHARDSON & CO  
Engines made at WALKER By whom made SWAN, HUNTER, W. RICHARDSON, L<sup>o</sup> When made 1922  
Boilers made at WALKER By whom made S. H. - W. R. L<sup>o</sup> 1130 When made 1922  
Registered Horse Power Owners BRITISH TANKER CO L<sup>o</sup> Port belonging to LONDON

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel SPENCER & CO L<sup>o</sup>  
Letter for record S ) Total Heating Surface of Boilers 10204 Is forced draft fitted NO No. and Description of  
Boilers ONE. S. E. CYL. MULTI Working Pressure 120 lb Tested by hydraulic pressure to 230 lb Date of test 26. 1. 22  
No. of Certificate 9644 Can each boiler be worked separately — — — Area of fire grate in each boiler OIL FUEL No. and Description of  
Safety valves to each boiler TWO. DIRECT. SPRING Area of each valve 5. 98" Pressure to which they are adjusted 125 lb  
Are they fitted with easing gear YES In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler N. R. VALVE  
Smallest distance between boilers or uptakes and bunkers or woodwork 6'-0" Mean dia. of boilers 10'-6" Length 10'-6"  
Material of shell plates STEEL Thickness 31/32 Range of tensile strength 30/34 tons Are the shell plates welded or flanged NO  
Descrip. of riveting: cir. seams L. DR long. seams DBS. DR Diameter of rivet holes in long. seams 7/8 Pitch of rivets 3 1/2  
Gap of plates or width of butt straps 8 3/4 Per centages of strength of longitudinal joint rivets 75.1 90 Working pressure of shell by  
rules 124 lb Size of manhole in shell 16 x 12 Size of compensating ring 2-9 3/4 x 2-1 3/4 No. and Description of Furnaces in each  
Boiler 2. DEIGHTON Material STEEL Outside diameter 3-2 7/8 Length of plain part 7'-0 1/4 Thickness of plates crown 3/8 bottom 1/8  
Description of longitudinal joint WELD No. of strengthening rings NONE Working pressure of furnace by the rules 152 lb Combustion chamber  
plates: Material STEEL Thickness: Sides 17/32 Back 21/32 Top 17/32 Bottom 9/8 Pitch of stays to ditto: Sides 9 3/4 x 8 Back 9 1/2 x 8 1/4  
Top 9 1/4 x 8 If stays are fitted with nuts or riveted heads SEE PLAN Working pressure by rules 120 lb Material of stays STEEL Area at  
smallest part 13/8 Area supported by each stay 78.4 Working pressure by rules 124 lb End plates in steam space: Material STEEL Thickness 7/8  
Pitch of stays 20 x 13 1/2 How are stays secured D N Working pressure by rules 120 lb Material of stays STEEL Area at smallest part 2 1/4  
Area supported by each stay 286 Working pressure by rules 121 lb Material of Front plates at bottom STEEL Thickness 7/8 Material of  
lower back plate STEEL Thickness 7/8 Greatest pitch of stays 13 1/2 x 9 1/2 Working pressure of plate by rules 230 lb Diameter of tubes 2 1/2  
Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates STEEL Thickness: Front 7/8 Back 9/8 Mean pitch of stays 9 3/8 Pitch across wide  
water spaces 13 1/2 Working pressures by rules F. 159 lb B. 156 lb Girders to Chamber tops: Material STEEL Depth and thickness of  
order at centre 6 3/4 x 1 1/4 Length as per rule 28.71 Distance apart 9 1/4 Number and pitch of Stays in each 398 pitch  
Working pressure by rules 123 lb Steam dome: description of joint to shell NONE % 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 NONE 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. none 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  
Diam. 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,  
SWAN, HUNTER & WIGHAM RICHARDSON, LTD. Manufacturer.

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

Is the approved plan of main boiler forwarded herewith  
" " " donkey " " " " " "



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

The Donkey Boilers fitted up on board in deck house.  
The Boilers built under special survey. The material workmanship found good and efficient.  
The Boilers tested under hydraulic pressure, 230 lb. found satisfactory.  
The Boilers tested under steam and its Safety Valves adjusted 125 lb.  
The Boilers fitted for Burmah oil fuel under natural draught.  
Flash point of oil above 150° F.

Date of writing Report

No. in Survey held  
Reg. Book.  
on the

Master

Engines made at

Boilers made at

Registered Horse Power

Shaft Horse Power

URBINE EN

Diameter of Rotor Sha

Diameter of Journals

Diameter of Wheel Sha

Width of Face "K. 20"

No. of Screw Shafts

No. of Blades

Thickness at Bottom of

ARTICULARS

1ST EXPANSION

2ND

3RD

4TH

5TH

6TH

7TH

8TH

No. and size of Feed

No. and size of Bilge

No. and size of Bilge

No. of Bilge Injections

Are all the bilge suction

Are all connections wi

Are they fixed sufficien

Are they each fitted wi

What pipes are carried

Are all Pipes, Cocks,

Are the Bilge Suction

Is the Screw Shaft Tr

BOILERS, &c.

Total Heating Su

Working Pressure

Can each boiler be wor

each boiler.

Smallest distance betw

Thickness

long. seams

Per centages of streng

Size of compensating

Length of plain part

Working pressure of

Pitch of stays to ditto

Material of stays

Material

Diameter at smallest

Thickness.

Diameter of tubes

Pitch across wide wa

thickness of girder at

Working pressure by

Thickness of shell pl

Working pressure of

Certificate (if required) to be sent to  
The Surveyors are requested not to write on or below the space for Committee's Minute.

|                                |           |    |                   |
|--------------------------------|-----------|----|-------------------|
| The amount of Entry Fee .. £   | :         | :  | When applied for. |
| Special .. .. £                | See Hatch | 19 |                   |
| Donkey Boiler Fee .. .. £      | Report    |    | When received,    |
| Travelling Expenses (if any) £ | :         | :  | 19                |

Committee's Minute

FRI. 6 OCT. 1922

Assigned

See other Rpt. No. 75999

L. E. Shannon  
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation