

# REPORT ON BOILERS.

No. 80664.

Received at London Office

20 OCT 1926

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of writing Report 15 Oct 1926 When handed in at Local Office 19 Oct 1926. Port of

NEWCASTLE-ON-TYNE.

in Survey held at Walker on Tyne

Date, First Survey March 2<sup>nd</sup> Last Survey Oct. 12<sup>th</sup> 1926.

on the Steel Screw Steamer "BRITISH GOVERNOR"

(Number of Visits ☒) Gross 6975 Tons Net 4450

Built at Walker on Tyne By whom built Swan Hunter & Wigham Richardson Ltd. When built 12.26.10

Boilers made at Walker on Tyne By whom made Swan Hunter & Wigham Richardson Ltd. Engine No. 1218 When made 12.26.10

Boilers made at Walker on Tyne By whom made Swan Hunter & Wigham Richardson Ltd. Boiler No. 1218 When made 12.26.10

Indicated Horse Power 584 Owners British Tanker Co. Ltd. Port belonging to London

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colville & Co. Ltd. Doughton Works. (Letter for Record S ☒) Heating Surface of Boilers 8634 sq. ft. ☒ Is forced draught fitted Yes ☒ Coal or Oil fired Oil ☒

and Description of Boilers 3 S. E. Cyl. Multitubular ☒ Working Pressure 200 lb ☒

Tested by hydraulic pressure to 350 lb ☒ Date of test 15.6.26 No. of Certificate 109 ☒ Can each boiler be worked separately Yes ☒

of Firegrate in each Boiler oil fuel No. and Description of safety valves to each boiler 2 direct Spring High Lift Valves ☒

of each set of valves per boiler (per Rule 13.24. as fitted 14.14) Pressure to which they are adjusted 205 lb ☒ Are they fitted with easing gear Yes ☒

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler Non return Valve ☒

Least distance between boilers or uptakes and bunkers or woodwork 2' 0" ☒ Is oil fuel carried in the double bottom under boilers Yes ☒

Least distance between shell of boiler and tank top plating 2' 3" ☒ Is the bottom of the boiler insulated Yes ☒

Least internal dia. of boilers 15" 9 5/16" Length 12' 0" ☒ Shell plates: Material Steel ☒ Tensile strength 30/34 tons ☒

Thickness 13/32" ☒ Are the shell plates welded or flanged No ☒ Description of riveting: circ. seams (end D.R. Lap. ☒ inter. ☒

seams T.R.D.B.S. ☒ Diameter of rivet holes in (circ. seams 15" ☒ long. seams 13/8" ☒ Pitch of rivets (4.68" ☒ 9 3/8" ☒

Percentage of strength of circ. end seams (plate 67.94% ☒ rivets 43.08% ☒ Percentage of strength of circ. intermediate seam (plate 85.33% ☒ rivets 84.71% ☒ combined 84.60% ☒

Percentage of strength of longitudinal joint (plate 85.33% ☒ rivets 84.71% ☒ combined 84.60% ☒ Working pressure of shell by Rules 200 lb ☒

Thickness of butt straps (outer 1 1/2" ☒ inner 1 5/8" ☒ No. and Description of Furnaces in each Boiler 4 Doughton, Corrugated ☒

Material Steel ☒ Tensile strength 26/30 tons ☒ Smallest outside diameter 3' 2 3/4" ☒

Thickness of plates (crown 9/16" ☒ bottom 9/16" ☒ Description of longitudinal joint welded ☒

Dimensions of stiffening rings on furnace or e.c. bottom Working pressure of furnace by Rules 240 lb ☒

plates in steam space: Material Steel ☒ Tensile strength 26/30 tons ☒ Thickness 1 1/4" ☒ Pitch of stays 21 3/8" x 16 1/2" ☒

Are stays secured Double nuts, washers ☒ Working pressure by Rules 200 lb ☒

plates: Material (front Steel ☒ back Steel ☒ Tensile strength (26/30 tons ☒ 26/30 tons ☒ Thickness (C 3/4" ☒ 13/16" ☒

pitch of stay tubes in nests 13 1/2" x 7 1/2" ☒ Pitch across wide water spaces 13 1/2" ☒ Working pressure (front 209 lb ☒ back 229 lb ☒

ers to combustion chamber tops: Material Steel ☒ Tensile strength 28/32 tons ☒ Depth and thickness of girder

entre 9 7/8" x 13 1/8" ☒ Length as per Rule 32 1/2" ☒ Distance apart 8" ☒ No. and pitch of stays

ch 3 of 8" pitch ☒ Working pressure by Rules 203 lb ☒ Combustion chamber plates: Material Steel ☒

ile strength 26/30 tons ☒ Thickness: Sides 11/16" ☒ Back 29/32 3/4" ☒ Top 11/16" ☒ Bottom 11/16" ☒

of stays to ditto: Sides 8 3/8" x 9 1/8" ☒ Back 8 1/2" x 7 1/2" ☒ Top 8" x 8" ☒ Are stays fitted with nuts or riveted over other back stay ☒

Working pressure by Rules 205 lb ☒ Front plate at bottom: Material Steel ☒ Tensile strength 26/30 tons ☒

Thickness 1" ☒ Lower back plate: Material Steel ☒ Tensile strength 26/30 tons ☒ Thickness 29/32" ☒

of stays at wide water space 13 1/2" x 7 1/2" ☒ Are stays fitted with nuts or riveted over Back Marginal Stays ☒

Working Pressure 282 lb. ☒ Main stays: Material Steel ☒ Tensile strength 28/32 tons ☒

eter (At body of stay, 3 3/8" ☒ No. of threads per inch 6 ☒ Area supported by each stay 20 7/8" x 17" ☒

Over threads 3 3/8" ☒ Screw stays: Material Steel ☒ Tensile strength 26/30 tons ☒

Working pressure by Rules 212 lb ☒ No. of threads per inch 9 ☒ Area supported by each stay 9 x 8 3/8" ☒

eter (At turned off part, 15/8" ☒

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Working pressure by Rules 206 ✓ Are the stays drilled at the outer ends 210 ✓ Margin stays: Diameter { At turned off part, 1 3/4" ✓  
No. of threads per inch 9 ✓ Area supported by each stay 11 1/16 x 7 1/2 ✓ Working pressure by Rules 216 lb ✓  
Tubes: Material IRON ✓ External diameter { Plain 2 1/2" ✓ Thickness 5/16 - 3/8 ✓ No. of threads per inch 9 ✓  
Pitch of tubes 3 3/4 ✓ Working pressure by Rules 200 lb ✓ Manhole compensation: Size of opening 32. Runt ✓  
shell plate 20 x 16 ✓ Section of compensating ring Flanged 3' 5 3/8 x 2' 11 3/8 ✓ No. of rivets and diameter of rivet holes 32. Runt ✓  
Outer row rivet pitch at ends 10 7/8 ✓ Depth of flange if flanged 2 3/4 x 1 3/2 thick ✓ Steam Dome: Material none ✓  
Tensile strength Thickness of shell Description of longitudinal joint  
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate  
Internal diameter Working pressure by Rules Thickness of crown No. and diam  
stays Inner radius of crown Working pressure by Rules  
How connected to shell Size of doubling plate under dome Diameter of rivet holes  
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes  
Number of elements Material of tubes Internal diameter and thickness of tubes  
Material of headers Tensile strength Thickness Can the superheater be shut off from the boiler  
the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
Area of each safety valve Are the safety valves fitted with casing gear Working pressure  
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure  
tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

The foregoing is a correct description,  
FOR SWAN, HUNTER & WIGHAM RICHARDSON, LTD. Manuf

Dates of Survey { During progress of work in shops - - - See machinery Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
while building { During erection on board vessel - - - The part. Total No. of visits

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

The Boilers built, and fitted up on board the vessel under Special Survey  
The material and workmanship found good and efficient ✓

See identity kept on machinery

Survey Fee	£	:	:	When applied for,	192
Travelling Expenses (if any)	£	:	:	When received,	192

L. G. Shallcross

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 22 OCT 1926

Assigned See Minute on attached report  
JWC. No 80664



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Foundation