

REPORT ON BOILERS.

No. 80664.

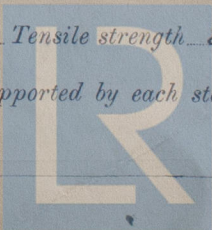
Received at London Office 20 OCT 1926

NEWCASTLE-ON-TYNE.

Writing Report 15 Oct 1926 When handed in at Local Office 19 Oct 1926 Port of NEWCASTLE-ON-TYNE.
Size of open book. Survey held at Walker on Tyne Date, First Survey August 2nd Last Survey 12 October 1926
on the Steel Screw Steamer BRITISH GOVERNOR (Number of Visits) Gross 6975 Tons Net 4450
Built at Walker on Tyne By whom built S. H. W. R. Ltd Yard No. 1218 When built 1926.10
Made at Walker on Tyne By whom made Swan Hunter Wigham Richardson Engine No. 1218 When made 1926.10
Boiler No. 1218 When made 1926.10
Owners British Tanker Coy Ltd Port belonging to London

LTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Coy. Ltd. Doughton. rec'd (Letter for Record S)
Heating Surface of Boilers 1020 Is forced draught fitted No Oil fired oil
Description of Boilers 1 Single Ended Cylindrical Multitubular Working Pressure 120 lb
by hydraulic pressure to 230 lb Date of test 15.6.26 No. of Certificate 110 L.G.S. Can each boiler be worked separately
of Firegrate in each Boiler oil No. and Description of safety valves to each boiler 2 direct spring high lift
of each set of valves per boiler 7.56 Pressure to which they are adjusted 120 lb Are they fitted with easing gear Yes
of donkey boilers, state whether steam from main boilers can enter the donkey boiler No return valve on D Boiler
Distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers
Distance between shell of boiler and tank top plating Is the bottom of the boiler insulated Yes
Outside dia. of boilers 10' 6" Length 10' 6" Shell plates: Material Steel Tensile strength 30/34 tons
Are the shell plates welded or flanged No Description of riveting: circ. seams end D R L
D R D B S Diameter of rivet holes in circ. seams 7/8" Pitch of rivets 3 3/4" 3 1/2"
Percentage of strength of circ. end seams plate 72.4% rivets 44.24% Percentage of strength of circ. intermediate seam plate 75.70% rivets 75.19%
Working pressure of shell by Rules 124.6 lb
No. and Description of Furnaces in each Boiler two Doughton, Corrugated
Tensile strength 26/30 tons Smallest outside diameter 2' 10 5/8"
Thickness of plates crown 3/8" bottom 7/8" Description of longitudinal joint weld
Working pressure of furnace by Rules 152 lb
Material Steel Tensile strength 26/30 tons Thickness 7/8" Pitch of stays 20" x 13 1/2"
Working pressure by Rules 120 lb
Material Steel Tensile strength 26/30 tons Thickness 7/8" Working pressure front 159 lb back 156 lb
Pitch of stay tubes in nests 10 1/4 x 7 1/2 Pitch across wide water spaces 13 1/2"
Material Steel Tensile strength 28/32 tons Depth and thickness of girder 6 3/4 x 1 1/4"
Length as per Rule 28.71" Distance apart 9 1/4" No. and pitch of stays 3 of 8" pitch Working pressure by Rules 123 lb
Combustion chamber plates: Material Steel Tensile strength 26/30 tons Thickness: Sides 17/32" Back 3 1/2" Top 17/32" Bottom 5/8"
Are stays fitted with nuts or riveted over Old stays riveted inside O.C.
Front plate at bottom: Material Steel Tensile strength 26/30 tons
Lower back plate: Material Steel Tensile strength 26/30 tons Thickness 7/8"
Are stays fitted with nuts or riveted over Nuts on Back margin stays
Main stays: Material Steel Tensile strength 28/32 tons
At body of stay, No. of threads per inch 6 Area supported by each stay 29 3/8 x 14 3/4
Over threads 2 1/4" Screw stays: Material Steel Tensile strength 26/30 tons
At turned off part, No. of threads per inch 9 Area supported by each stay 9 1/4 x 8
Over threads 1 3/8



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Working pressure by Rules 128 lb Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 1 5/8
 No. of threads per inch 9 Area supported by each stay 10' x 11 1/2' Working pressure by Rules 130 lb
 Tubes: Material 186N External diameter { Plain 2 1/2" Thickness 5/16" No. of threads per inch 9
 Pitch of tubes 3 3/4 x 3 3/4 Working pressure by Rules 153 lb Manhole compensation: Size of opening 29 3/4 x 29 3/4 x 2/32
 shell plate 20' x 16' Section of compensating ring Flanged No. of rivets and diameter of rivet holes 32 - 1 1/8"
 Outer row rivet pitch at ends 5 3/4" Depth of flange if flanged 2" 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 Rivets
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of rivets
 stays Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes in dome connection to shell
 of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel castings
 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 easing 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.

G. J. Twenty

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 - - - report. 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 Plenty report 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 No. 80664



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