

REPORT ON BOILERS.

No. 794 77.

Date of writing Report 1952 When handed in at Local Office 5/11 52 Port of GLASGOW 19 AUG 1953 12 NOV 1952
No. in Survey held at Annan Date, First Survey 14th July, 1952 Last Survey 30th October, 1952
Reg. Book on the S. I. GEORGE (Number of Visits 12)
Built at Dumbarton By whom built Wm. Denny & Bros., Ltd., Yard No. 1196 When built
Boilers made at Annan By whom made Cochran & Co., Annan Boiler No. 19354 When made 1952
Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description Multitubular Manufacturers of steel Colvilles Ltd.,
Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1952 Where fixed Machinery Space Working pressure 150 lbs
tested by hydraulic pressure 275 Date of test 30.10.52 No. of Certificate 23753 Fire grate area 112 Description of safety valves enclosed spring
No. of safety valves 2 Area of each 704^{sq} Pressure to which they are adjusted 150 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 8'-6" Length 20'-3" Material of shell plates Steel Thickness 25/32, 1.1/32"
Range of tensile strength 28-32 ton Description of riveting long. seams D.R. D.B.S. & Diameter of rivet holes 1.1/32, 1.3/16 Whether punched or drilled Drilled Pitch of rivets 4.25, 3.33, 3.96 Lap of plating 5 5/8" Per centage of strength of joint Rivets 83.03, 52.89 Working pressure of shell by plates 74.01, 64.39
rules 155.2 lbs Thickness of shell crown plates 17/32, 5/8" Radius of do. 4'-3" No. of stays to do. Nil Diameter of stays - Diameter of furnace—Top - Bottom 7'-6" Length of furnace - Thickness of furnace side plates 27/32" Description of joint Seamless Working pressure of furnace by rules 158.9 Thickness of Ogee ring 1.7/32 Working pressure of Ogee ring by rules 165.1 Thickness of furnace crown plates 27/32" Radius of do. 3'-9" Stayed by Hemisphere Diameter of uptake 23 1/4 x 26 3/4 Thickness of uptake plates 5/8 Thickness of tube plates front 1.5/16 back 1 1/8 Mean pitch of stay tubes in nest As approved Pitch in outer vertical rows 9.596
Diameter of tube holes FRONT 2.11/16 BACK 2 1/2 Working pressure of tube plates by rules F.183.1 Tubes: Material Steel
External diameter stay 2.9/16 plain 2.9/16 Thickness stay 11/32 plain 10 W.G. No. of threads per inch 9 Pitch of Tubes 3.11/16" x 4.798"
Working pressure by rules 175 lbs Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 7.5/16 x 1.1/16 No. of rivets and diameter of rivet holes 40 at 1.3/16" Outer row pitch at ends 4.28

The foregoing is a correct description, *W. R. R. & Co.* Manufacturer.

Dates of Survey while building During progress of work in shops 1952. Jul. 14-Aug 8. 14. 28. Sep. 4. 11. 18. 26. Oct. 2. 9. 16. 30.
During erection on board vessel - - -
Total No. of visits 12 Drawing No. 38041
Is the approved plan of boiler forwarded herewith Yes

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

The boiler has been constructed under Special Survey in accordance with the Rules and approved plan.

Materials and workmanship are good.

The boiler is intended for installation in Wm Denny & Bros No 1196.

The boiler has been satisfactorily installed in the vessel. Safety valves adjusted and accumulation trials carried out

The boiler is suitable in my opinion to be classed with the main machinery + L.M.C.

Survey Fee ... £ 12 : - : - MONTHLY ACCOUNT
Travelling Expenses (if any) £ : : : When applied for 19
When received 19

Committee's Minute

Assigned Deferred for completion

GLASGOW 11 NOV 1952

W. R. R. & Co. J. P. Mauns
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

0044 26-0044 31-0135