

## REPORT ON BOILERS.

No. 49728

Date of writing Report 19... When handed in at Local Office 27 DEC 52, Port of GLASGOW. Received at London Office 19 AUG 1953 31 DEC 1952

No. in Survey held at Annan Date, First Survey 17.7.52 Last Survey 14.12.1952

Reg. Book on the S.S. GEORGE (Number of Visits 19)

Built at Dumbarton By whom built Messrs. Wm. Denny & Bros. Ltd. Yard No. 1196 When built

Boilers made at Annan By whom made Cochran & Co. Annan Ltd. Boiler No. 19353 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 Mach. space Working pressure 150 lbs

tested by hydraulic pressure to 275 Date of test 18/12/52 No. of Certificate / Fire grate area Description of safety valves COCK BARS SPRING LOADED

No. of safety valves 2 Area of each 7.045 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 32" 1 32" 1 32"

Range of tensile strength 28.32 ton Description of riveting long. seams D.R. D.B.S. & D.R. Lap. Diameter of rivet holes 1 32, 1 16 Whether punched or drilled drilled Pitch of rivets 4.25, 3.33, 3.96 Lap of plating 5 3/4 Per centage of strength of joint Rivets 83.03, 52.89 Plates 74.01, 64.39 Working pressure of shell by rules 155.2 lbs. Thickness of shell crown plates 1 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 32" Working pressure of Ogee ring by rules 165.1 Thickness of furnace crown plates 32" Radius of do. 3' - 9" 5" 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 16 back 1 16 Mean pitch of stay tubes in nest as approved Pitch in outer vertical rows 9.596

Diameter of tube holes FRONT 2 9 BACK 2 1/2 Working pressure of tube plates by rules B 164.2 Tubes: Material steel

External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of Tubes 3 1/16 x 4.798" 53

Working pressure by rules 175 lbs. Manhole compensation; Size of opening in crown 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 1/16 Outer row pitch at ends 4.28

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops 1952 Jul. 17, Aug 8, 14, 28, Sep. 4, 11, 18, 26, Oct. 2, 9, 16, 30, Nov. 6, 13, 20, Dec. 25, 31

During erection on board vessel -

Total No. of visits 19

Drawing No. 38040

Is the approved plan of boiler forwarded herewith Yes.

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

This boiler has been constructed under Special Survey in accordance with the Society's Rules and the approved plan

Materials and workmanship are good.

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

The boiler is eligible in my opinion to be classed with the main machinery + LMC.

Survey Fee ... £ 12 : - : -

Travelling Expenses (if any) £ : :

When applied for 19

When received 19

Committee's Minute

Assigned

Deferred for completion

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

004426-004431-0134