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- 1 JAN 1947
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REPORT ON BOILERS.

No. 71207

Date of writing Report 18th day of Dec 19 46 When handed in at Local Office 19th day of Dec 19 46 Port of GLASGOW.

Received at London Office 28 DEC 1946

No. in Reg. Book 36812 Survey held at Annan Date, First Survey 2nd & 4th Last Survey 5th December, 1946 (Number of Visits 3)

on the S.S. "ARABIA" Tons Gross 8723 Net 5001

Yard No. 2767 Built at Hartlepool. By whom built RICHARDSON WESTGARTH & CO. LTD. When built 1947

Boilers made at ANNAN By whom made COCHRAN & CO. ANNAN LIMITED Boiler No. 16798 When made 1946

Owners Cunard White Star Ltd Port belonging to Liverpool

VERTICAL DONKEY BOILER— No. one Description Cochran Manufacturers of steel Colvilles Ltd.,

Made at Annan By whom made Cochran & Co. Annan When made 1946 Where fixed Stokehold Port Side Working pressure 105 lbs/sq. in.

tested by hydraulic pressure to 208 lbs/sq. in. Date of test 5.12.46 No. of Certificate 22309 Fire grate area oil fired Description of safety valves double spring

No. of safety valves 2 Area of each 4.9 sq. in. Pressure to which they are adjusted 105 lbs If fitted with easing gear Yes If steam from main boilers can

enter the donkey boiler No. Diameter of donkey boiler 7'6" Length 18'6" Material of shell plates S Thickness 21/32" & 17/32"

Range of tensile strength 28/32 tons Description of riveting long. seams D.R. Lap Diameter of rivet holes 29/32" Whether punched or

drilled drilled Pitch of rivets 2.883", 2.881" & 2.97" Lap of plating 4½" Per centage of strength of joint Rivets 67.04 Plates 68.57 Working pressure of shell by

rules 107.9 lbs/sq. in. Thickness of shell crown plates 15/32" & 15/16" Radius of do. 3'9" No. of stays to do. none Diameter of stays - Diameter of

furnace—Top - Bottom 6'6" Length of furnace - Thickness of furnace side plates 9/16" Description of joint seamless Working

presssure of furnace by rules 119.9 lbs/sq. in. Thickness of Ogee ring 15/16" Working pressure of Ogee ring by rules 109 lbs/sq. in. Thickness af furnace

crown plates 9/16" Radius of do. 3'3" Stayed by hemisphere Diameter of uptake 20" x 23½" Thickness of uptake

plates 9/16" Thickness of tube plates front 31/32 back 29/32 Mean pitch of stay tubes in nest 12.23" Pitch in outer vertical rows 8"

Diameter of tube holes FRONT plain 2.9/16" stay 2.11/16" BACK plain 2½" stay 2½" Working pressure of tube plates by rule F.106.3 lbs/sq. in. B.120.5 Tubes: Material steel

External diameter plain 2½" stay 2½" Thickness plain 10 L.S.G. stay 11/32 No. of threads per inch 9" Pitch of Tubes 3.9/16" x 4"

Working pressure by rules 175 lbs/sq. in. Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating

ring 7½" x 1" No of rivets and diameter of rivet holes 40 @ 29/32 Outer raw pitch at ends 4.105"

The foregoing is a correct description,

FOR COCHRAN & CO., ANNAN, LTD. Manufacturer.

Dates of Survey while building — During progress of work in shops - [illegible] Drawing No. 30921

During erection on board vessel - -

Total No. of Visits 31. Is the approved plan of boiler forwarded herewith Yes

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

The materials and workmanship are good.

The boiler has been constructed under Special Survey, to the order of Messrs. Richardson & Westgarth & Co. Ltd., West Hartlepool, for their Contract No. 2763/7

The boiler will be sent to West. Hartlepool.

This boiler has now been satisfactorily fitted on board the vessel & safety valves adjusted to 105 lbs per sq in.

S Wood
West Hartlepool.

Survey Fee ... ... £ 6 : 0 : 0 When applied for [illegible] 19

Travelling Expenses (if any) £ : : When received 19

L. C. Davis
Engineer Surveyor to Lloyd's Register of Shipping.

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

Committee's Minute GLASGOW 27 DEC 1946 FRI. 30 JAN 1948

Assigned Reported for Completion

Sec F.E. mchy. 4/1.

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