

REPORT ON BOILERS.

No. 60855

MAR 22 1939

Received at London Office

Date of writing Report 19/9 1939 When handed in at Local Office 20.3.39 Port of Glasgow

No. in Survey held at 1954 on the *Twin E. Motor vessel 'SOMMERSTON'* Date, First Survey 24.3.38 Last Survey 14.3.1939

Reg. Book. (Number of Visits 28) Tons { Gross 7227.14 Net 5517.53

Master Built at Odense By whom built Odense Staalskibsværkt N° 99 When built 1939

Boilers made at Annan By whom made Buchanan & Co. Annan Ltd N° 14044-5 When made 1939

Owners Vederb. Aarvick. Hørm. v. Maats. Port belonging to Rotterdam

VERTICAL DONKEY BOILER— No. Two Description Buchanan Manufacturers of steel L. Shillies Ltd

Made at Annan By whom made Buchanan & Co. Annan Ltd When made 1939 Where fixed in ship on platform deck

tested by hydraulic pressure to 200 Date of test 14.3.39 No. of Certificate 14044-5 Fire grate area 20362 Working pressure 100

No. of safety valves 2 Area of each 4.9" Pressure to which they are adjusted 100 lbs. If fitted with easing gear y/n If steam from main boilers can enter the donkey boiler y/n

Diameter of donkey boiler 6'-6" Length 14'-6" Material of shell plates S Thickness 1 1/2" 3/32"

Range of tensile strength 28-32 ksi Description of riveting long. seams DR Lap Diameter of rivet holes 29/32" Whether punched or drilled drilled Pitch of rivets 2 1/8" 2 1/2" 2 7/8" Lap of plating 4 1/2" Per centage of strength of joint Rivets 69.6 Working pressure of shell by plates 67.46

rules 125 Thickness of shell crown plates 15 3/32" 2 1/2" Radius of do. 3'-3" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom 5'-6" Length of furnace Thickness of furnace side plates 1/2" Description of joint Seamless Working pressure of furnace by rules 125 Thickness of Ogee ring 27 3/32" Working pressure of Ogee ring by rules 101 Thickness of furnace crown plates 1/2" Radius of do. 2'-9" Stayed by hemisphere Diameter of uptake 15" x 23" Thickness of uptake plates 9/16" Thickness of tube plates front 13/16" back 23/32" Mean pitch of stay tubes in nest 11.54" Pitch in outer vertical rows 8"

Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules 101-8-8/10/9 Tubes: Material steel

External diameter stay 2 1/2" plain 2 1/2" Thickness stay 1 1/32" plain 10/32" No. of threads per inch 9 Pitch of tubes 4" x 3 9/16"

Working pressure by rules 175 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 2'-4" dia x 37 3/32" No. of rivets and diameter of rivet holes 36 @ 29 3/32" Outer row pitch at ends 3.94"

FOR COCHRAN & CO., ANNAN, LTD.

The foregoing is a correct description,

W. J. L. WORKS Manufacturer.

Dates of Survey while building

During progress of work in shops— 1938 Mar.: 24.31 Apr.: 8.14.20.29 May.: 6.10.19.23 June.: 2.9.15 Drawing No. 23574

During erection on board vessel— 30 July.: 7 Aug.: 4.11 Sep.: 1 Oct.: 4 Nov.: 4.9 Dec.: 6.22 (1939) Jan.: 6 Feb.: 9.28 Mar.: 9.14

Total No. of visits 28

Is the approved plan of boiler forwarded herewith yes

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

The materials and workmanship are good.

The boilers have been constructed under special survey.

They are being sent to Holland to be fitted in the vessel.

The donkey boilers have been fitted on board the vessel under special survey and completed.

The safety valves adjusted under steam to 100 lbs. p. sq. inch.

For feeding purposes two Weir's feed pumps, 4' 6" x 7" simplex, have been fitted.

SURVEYOR TO LLOYD'S REGISTER OF SHIPPING

Survey Fee ... £ 8 : 8 : When applied for 19.

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

Committee's Minute GLASGOW 21 MAR 1939

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.