

REPORT ON BOILERS.

No. 4873

28 DEC 1928 27 MAY 1929

Received at London Office
Date of writing Report 19 When handed in at Local Office 22.12.28 Port of Glasgow
No. in Survey held at Annan Date, First Survey 6.11.28 Last Survey 21st December 1928
Reg. Book 12117 on the BOILER No 11032 M/S "SANTA RITA" (Hord No 553) Tons { Gross 5538.40 Net 3371.14
Master Built at Copenhagen By whom built Asst Burmeister & Wain's Maskin og Skibsbjggeri When built 1929
Boilers made at Annan By whom made Messrs Cochran & Co Annan Ltd When made 1928
Owners Grace Steamship Co. Incorporated. (W.R. Grace & Co) Port belonging to New York

VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel G. Colville & Sons Ltd
Made at Annan By whom made Cochran & Co Annan When made 1928 Where fixed In machinery space Working pressure 100 lbs
tested by hydraulic pressure to 200 lbs Date of test 21-12-28 No. of Certificate 18145 Fire grate area 11 3/4 Description of safety valves Enclosed Spring
No. of safety valves 2 Area of each 1.767 sq ft Pressure to which they are adjusted 80 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 4'-9" Length 12'-6" Material of shell plates Steel Thickness 3/8", 7/16", 3/8"
Range of tensile strength 28-32 Description of riveting long. seams D.R. Lap. Diameter of rivet holes 23/32 Whether punched or drilled drilled Pitch of rivets 2.333", 2.315", 2.329 Lap of plating 3 3/4 Per centage of strength of joint Rivets 76.4 Working pressure of shell by Plates 69.1
rules 117.2 lbs Thickness of shell crown plates 9/16 Radius of do. 4'-9" No. of stays to do. Diameter of stays Diameter of furnace—Top 3'-10 3/4 Bottom 4'-3 Length of furnace 4'-6 Thickness of furnace side plates 5/8 Description of joint S.R. Lap Working pressure of furnace by rules 147.5 Thickness of Ogee ring Working pressure of Ogee ring by rules Thickness of furnace crown plates 1/2 Radius of do. 24 Stayed by Hemisphere Diameter of uptake 11" x 16 3/4 Thickness of uptake plates 1/2 Thickness of tube plates from 3/4 back 5/8 Mean pitch of stay tubes in nest 9.098 Pitch in outer vertical rows 7.32
Diameter of tube holes FRONT stay 2 1/16 BACK stay 2 1/2 Working pressure of tube plates by rules F. 105.1 lbs Tubes: Material Wrought iron
External diameter stay 2 1/2 Thickness stay 1/32 plain 2 1/2 No. of threads per inch 9 Pitch of tubes 3 5/8 x 3.66
Working pressure by rules 125 lbs Manhole compensation: Size of opening in shell plate 16" x 12 Section of compensating ring 5" x 19 3/32 No. of rivets and diameter of rivet holes 32 off 23/32 Outer row pitch at ends 4 1/4

The foregoing is a correct description,

J. C. Newdham

Manufacturer.

Dates of Survey while building During progress of work in shops 1928 Nov. 6-16-30 Dec 5-11-21
During erection on board vessel 1929 March 18, 22, 30, April 2, 13, 23, May 3, 6, 7.
Total No. of visits 6

Drawing No. 16623

Is the approved plan of boiler forwarded herewith yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey in accordance with the rules and approved plan
The materials and workmanship are good
This boiler is to the order Messrs Burmeister & Wain Copenhagen and intended for installation in their Ship No. 553. (W. Lees)

The boiler has now been installed on board the above vessel and connected complete to our satisfaction.

Two vertical Wain's system pumps 4" x 6" x 8" have been fitted for feeding purpose to the boiler.

Survey Fee ... £ 4-4-0 When applied for ... 19
Travelling Expenses (if any) £ : : When received ... 19

MONTHLY ACCOUNT

G. E. Murdoch

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 DEC 1928
Assigned TRANSMIT TO LONDON

FRI. 31 MAY 1929

See Chm. Dept No 7981 attached

Lloyd's Register Foundation

014666-014674-0104