

REPORT ON BOILERS.

No. 48586

Received at London Office 14 NOV 1928

Date of writing Report 19 When handed in at Local Office 19 Port of Glasgow

No. in Survey held at Annan Date, First Survey Sept 28th Last Survey 6th Nov. 1928

Reg. Book. 2088 on the BOILER No 11030. Steel & Iron Motor Vessel "SANTA INEZ." (Number of Visits X 6) Gross 5538.40

Tons Net 3371.14

Master ✓ Built at Copenhagen By whom built Messrs Burmeister & Wain, Copenhagen When built 1929

Boilers made at Annan By whom made Messrs Cochran & Co Annan Ltd When made 1928

Owners Grace Steamship Company, Incorporated. (W & Grace & Co) Port belonging to New York. U.S.A.

VERTICAL DONKEY BOILER No. One Description Vertical Manufacturers of steel S. Colville & Sons

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 6-11-28 No. of Certificate 18098 Fire grate area 114 sq. ft. Description of safety valves Enclined Spring

No. of safety valves Two Area of each 1.76 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 2-3/5", 2-3/32", 2-3/29" Lap of plating 3 3/4" Per centage of strength of joint 76.4 Working pressure of shell by rules 69.1

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 1/4" 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 lbs.

Thickness of Ogee ring ✓ Working pressure of Ogee ring by rules ✓ Thickness of furnace crown plates 1/2" Radius of do. 2'-0" Stayed by Hemispherical Diameter of uptake 11" x 16 3/4" Thickness of uptake plates 1/2" Thickness of tube plates 3/4" Mean pitch of stay tubes in nest 9.09" 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. B. 110.8" Tubes: Material Wrought Iron

External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 3 5/8" x 3.661"

Working pressure by rules 125 lbs. Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 5" x 1 9/32" No. of rivets and diameter of rivet holes 32 off. 23/32" Outer row pitch at ends 4 1/2"

The foregoing is a correct description,

For COCHRAN & CO. ANNAN, LIMITED Manufacturer.
J. E. Woodman

Dates During progress of work in shops - 1928 Sept 28 Oct 4. 12. 16. 23 Nov. 6 Drawing No. 16623

Survey while building During erection on board vessel - 1929 Jan. 7, 18, 30. Feb. 9, 18, 21, 22, 26. March 4, 6, 14, 18, 25, 28

Total No. of visits 6 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 their ship No. 552.

This donkey boiler has been fitted on board the above vessel and connected completely to our entire satisfaction.

Two Weir's patent feed pumps 4" x 6" x 8" have been fitted for feeding purpose to the donkey boiler.

A. F. G. G. G. G.
SURVEYOR TO LLOYD'S REGISTER OF SHIPPING
Copenhagen

Survey Fee ... £ 4 : 4 : 9 When applied for ... 19

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

MONTHLY ACCOUNT

A. Campbell
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 13 NOV 1928
Assigned TRANSMIT TO LONDON

See Ch. 1. 6. 1. No. 7047
Lloyd's Register Foundation
007412 - 007421 - 0141