

REPORT ON BOILERS.

No. 9760.

Received at London Office

25 JUN 1927

Date of writing Report

191

When handed in at Local Office

14th June 1927 Port of BelfastNo. in Survey held at
Reg. Book.

Belfast

Date, First Survey 14th MarchLast Survey 13th June 1927

(Number of Visits 13)

Gross

Tons

Net

on the

Tw. Sc. LAGUNILLA

Master Built at Belfast By whom built Harland & Wolff Ltd. No. 792 When built 1927

Engines made at Belfast By whom made Harland & Wolff Ltd. No. 792 When made 1927

Boilers made at Belfast By whom made Harland & Wolff Ltd. No. 792 When made 1927

Registered Horse Power Owners Andrew Weir & Co. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons Ltd.

(Letter for record S.) Total Heating Surface of Boilers 3702 sq ft Is forced draft fitted No. No. and Description of S.S. 27

Boilers Two single-ended cylindrical Working Pressure 180 lbs Tested by hydraulic pressure to 220 lbs Date of test 18.5.27

No. of Certificate 891 Can each boiler be worked separately Yes Area of fire grate in each boiler 49 sq ft No. and Description of

safety valves to each boiler Two spring-loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 180 lbs.

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers and bunkers 22 in Inter Mean dia. of boilers 14'-0 1/16" Length 10'-6"

Material of shell plates Steel Thickness 1 3/32" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams double long. seams tieble A.D.S. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/8"

Butt of plates or width of butt straps 18 3/8" Per centages of strength of longitudinal joint rivets 97.5 plate 85.07 Working pressure of shell by

rules 180 lbs. Size of manhole in shell 16x12" Size of compensating ring 36x32x18" double No. and Description of Furnaces in each

boiler 3 narrow Material Steel Outside diameter 44 1/16" Length of plain part top Thickness of plates crown 17" bottom 32

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 191 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 8 1/2 x 8 1/2" Back 9 1/2 x 7 1/2"

Top 8 1/2 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 187 lbs. Material of stays Steel Diameter at

smallest part 1 7/16" Area supported by each stay 72.25 sq in Working pressure by rules 210 lbs End plates in steam space: Material Steel Thickness 1 1/8"

Pitch of stays 17 1/2 x 20 1/2 in How are stays secured with washers Working pressure by rules 184 lbs Material of stays Steel Diameter at smallest part 2 7/16"

Area supported by each stay 295 sq in Working pressure by rules 212 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of

Lower back plate Steel Thickness 1 1/16" Greatest pitch of stays 13 1/2 x 7 1/2" Working pressure of plate by rules 225 lbs Diameter of tubes 3 1/4"

Pitch of tubes 14 1/2 x 4 3/8" Material of tube plates Steel Thickness: Front 7/8" Back 1 1/16" Mean pitch of stays 10.27" Pitch across wide

water spaces 14 1/4" Working pressures by rules front 188 lbs back 225 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 1/4 x 1 1/2" Length as per rule 30 5/8" Distance apart 88" Number and pitch of Stays in each Three 8"

Working pressure by rules 215 lbs. Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
FOR HARLAND AND WOLFF LIMITED,
J. Lebeck Manufacturer.Dates of Survey
During progress of work in shops - -
while building - -
During erection on board vessel - -1927 Mar 14. 18. 24. 28. 31 Apr 2. 27 May 2 Is the approved plan of boiler forwarded herewith Yes
5. 11. 18. June 6. 13 Total No. of visits 13

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

The Boilers of this vessel have been constructed under special survey and to approved plans. The material and workmanship are sound and good. They were tested by hydraulic pressure with satisfactory results, efficiently installed and fastened on the vessel and the safety valves adjusted under steam.

Survey Fee ... £ See memo Rpt. : When applied for, 191
Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

TUES. 28 JUN 1927

Assigned

See Rpt. attached

R. Lee Ames.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

W1638-0209