

## REPORT ON BOILERS.

No. 9770

Date of writing Report

191

When handed in at Local Office

29-6

Port of

Belfast

Received at London Office

30 JUN 1927

No. in Survey held at

Belfast

Reg. Book.

Date, First Survey 1<sup>st</sup> AprilLast Survey 23<sup>rd</sup> June 1927

on the

Tw. Sc. LA SALINA

(Number of Visits 10)

Tons } Gross

Net

Master

Built at Belfast

By whom built Harland &amp; Wolff Ltd. No 794

When built 1927

Engines made at Belfast

By whom made Harland &amp; Wolff Ltd. No 794

When made 1927

Boilers made at Belfast

By whom made Harland &amp; Wolff Ltd. No 794

When made 1927

Registered Horse Power

Owners A. Wei &amp; Co. Ltd.

Port belonging to London

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

(Letter for record S. 258)

Total Heating Surface of Boilers 3702 sq ft

Manufacturers of Steel

D. Colville &amp; Sons Ltd.

Boilers Two Single Ended cylindrical

Working Pressure 180 lb

Is forced draft fitted No

No. and Description of

No. of Certificate 896

Can each boiler be worked separately Yes

Tested by hydraulic pressure to 320 lb

Date of test 1.6.27

safety valves to each boiler Two Spring loaded

Area of fire grate in each boiler 49 sq ft

No. and Description of

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 or uptakes and bunkers or woodwork 22"

Material of shell plates Steel

Thickness 1 1/2"

Range of tensile strength 28-32 tons

Inner

Mean dia. of boilers 14'-0 1/2"

Length 10'-6"

Descrip. of riveting: cir. seams double

long. seams kibble AS S.

Diameter of rivet holes in long. seams 1 1/4"

Pitch of rivets 8 3/8"

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 lb

Size of manhole in shell 16"x12"

Size of compensating ring 36"x32"x1 1/8" double

No. and Description of Furnaces in each

boiler Three Division

Material Steel

Ruec

Outside diameter 40 1/2"

Length of plain part top

Thickness of plates crown

bottom 17 1/2"

Description of longitudinal joint Weld

No. of strengthening rings

Working pressure of furnace by the rules 191

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"x8 1/2" Back 8 1/2"x7 1/2"

Top 8 1/2"x8" If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 187 lb

Material of stays Steel

Diameter at

smallest part 1 7/8"

Area supported by each stay 72.25 sq in

Working pressure by rules 210 lb

End plates in steam space: Material Steel

Pitch of stays 1 7/2"x20 1/2" How are stays secured 5/16" washers

Working pressure by rules 184 lb

Material of stays Steel

Diameter at smallest part 2 7/4"

Area supported by each stay 295 sq in

Working pressure by rules 242 lb

Material of Front plates at bottom Steel

Thickness 3/8"

Material of

Lower back plate Steel

Thickness 1 3/8"

Greatest pitch of stays 13 1/2"x7 1/2"

Working pressure of plate by rules 225 lb

Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2"x4 3/8"

Material of tube plates Steel

Thickness: Front 7/8"

Back 1 1/8"

Mean pitch of stays 10.27"

Pitch across wide

water spaces 14 1/4"

Working pressures by rules front 188 lb

back 225 lb

Risers to Chamber tops: Material Steel

Depth and thickness of

girder at centre 8 1/4" - 1 1/2"

Length as per rule 30 5/8"

Distance apart 8 1/8"

Number and pitch of Stays in each Three 8"

Working pressure by rules 215 lb

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

For HARLAND AND WOLFF, LIMITED,

The foregoing is a correct description,

A. Marshall

Manufacturer.

Dates

During progress of

work in shops -

24.1.27 - 24.6.27

20 May 9.17.20.31

Is the approved plan of boiler forwarded herewith

Total No. of visits

while

During erection on

board vessel -

June 23 - 10

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These Boilers have been constructed under special survey. The materials and workmanship are sound and good. They have been satisfactorily tested by hydraulic pressure in accordance with the rules, efficiently installed and fastened on the vessel. The safety valve have been adjusted under steam. In my opinion the vessel is eligible for notation - L.M.C. 6.27

Survey Fee ... .. £

Travelling Expenses (if any) £

When applied for, 191

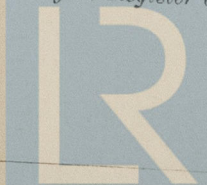
When received, 191

Committee's Minute

Assigned

R. Lee Amers.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

W1633-0172