

REPORT ON BOILERS.

No. 9643

Received at London Office

Date of writing Report

191

When handed in at Local Office

4-12-1926

Port of

Belfast

No. in Survey held at

Belfast

Date, First Survey

see index

Last Survey

191

Reg. Book.

75761 on the

STEEL TWIN SC.

LLANDAFF CASTLE

Gross 10900

Tons Net 6700

Master

Built at Belfast

By whom built Workman Clark & Co. Ltd.

When built 1926

Engines made at

Belfast

By whom made

Workman Clark & Co. Ltd.

When made 1926

Boilers made at

Belfast

By whom made

Workman Clark & Co. Ltd.

When made 1926

Registered Horse Power

Owners Union Castle Mail S. & G. Ltd.

Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

See index

(Letter for record 5) Total Heating Surface of Boilers 14508 Is forced draft fitted No. No. and Description of

Boilers 3 Single-ended Cylindrical Working Pressure 220 lbs. Tested by hydraulic pressure to 380 lbs. Date of test 7.8.26

No. of Certificate 886 Can each boiler be worked separately Yes Area of fire grate in each boiler 126.50 sq. ft. No. and Description of

safety valves to each boiler 2 Spring-loaded High-Lift Area of each valve 9.62 sq. in. Pressure to which they are adjusted 220 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 or uptakes and bunkers or woodwork 4'-0" Mean dia. of boilers 15'-8" Length 19'-10 3/4"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 30 to 34 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Middle D.R. long. seams J.R. S.B.S. Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 10 1/2"

Gap of plates or width of butt straps 23 3/4" Per centages of strength of longitudinal joint rivets 94.5 Working pressure of shell by

rules 225 lbs. Size of manhole in shell 16"x12" Size of compensating ring 36"x32"x1 1/2" No. and Description of Furnaces in each

boiler 6 Suspension in hull Material Steel Outside diameter 46 7/8" Length of plain part top Thickness of plates crown 21" bottom 32"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 220 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 21" Back 32" Top 21" Bottom 32" Pitch of stays to ditto: Sides 8"x8 1/2" Back

Top 8"x8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 234 lbs. Material of stays Steel Area at

smallest part 1.760" Area supported by each stay 66 sq. in. Working pressure by rules 230 lbs. End plates in steam space: Material Steel Thickness 1 1/8"

Pitch of stays 16"x16 3/4" How are stays secured check nut Working pressure by rules 242 lbs. Material of stays Steel Area at smallest part 7.0680"

Area supported by each stay 272.20" Working pressure by rules 286 lbs. Material of Front plates at bottom Steel Thickness 3/8" Material of

Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes 2 3/4"

Pitch of tubes 4"x4" Material of tube plates Steel Thickness: Front 7/8" Back 1 1/8" Mean pitch of stays 8" Pitch across wide

water spaces 14" Working pressures by rules 267 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 10"x1 3/4" Length as per rule 32" Distance apart 8" Number and pitch of Stays in each 8"x8"

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

FOR WORKMAN, CLARK & CO., LIMITED.

Manufacturer.

Dates of Survey
During progress of work in shops - -
while building - -
During erection on board vessel - -

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

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

These Boilers have been constructed under special survey. The materials & workmanship are sound & good. They have been efficiently installed and fastened on the vessel and the safety valves have been adjusted under steam.

Survey Fee ... £ When applied for, 191

Travelling Expenses (if any) £ See index Report When received, 191

Committee's Minute

TUES. 7 DEC 1926

Assigned

See index Report attached

R. Lee Ames

Engineer Surveyor to Lloyd's Register of Shipping.

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