

REPORT ON BOILERS.

No. 9643

Received at London Office

6 DEC 1926

Date of writing Report 191 When handed in at Local Office 14-12-1926 Port of Belfast

No. in Survey held at Belfast Date, First Survey see mchey Last Survey 191
 Reg. Book. 75761 on the STEEL TWIN SC. LLANDAFF CASTLE (Number of Visits) 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.S. Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, SINGLE-ENDED, AUXILIARY OR DONKEY.—Manufacturers of Steel W. Beardmore & Co. Ltd. ✓

Letter for record ✓ Total Heating Surface of Boilers 5160 sq ft Is forced draft fitted ho ✓ No. and Description of Boilers two single ended cylindrical ✓ Working Pressure 220 lbs ✓ Tested by hydraulic pressure to 380 lbs ✓ Date of test 7.8.26

No. of Certificate 887 Can each boiler be worked separately Yes ✓ Area of fire grate in each boiler 63.25 sq ft No. and Description of Safety valves to each boiler two spring loaded high lift ✓ Area of each valve 4.91 sq ft ✓ 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 2'-1 1/2" ✓ Internal Mean dia. of boilers 15'-8" ✓ Length 11'-11" ✓

Material of shell plates Steel ✓ Thickness 1 1/2" ✓ Range of tensile strength 29-33 tons ✓ Are the shell plates welded or flanged No ✓

Descrip. of riveting: cir. seams Double ✓ long. seams Treble ✓ Diameter of rivet holes in long. seams 1 1/2" ✓ Pitch of rivets 10 1/4" ✓

Width of butt straps 22 1/2" ✓ Per centages of strength of longitudinal joint rivets 88.4 ✓ Working pressure of shell by rules 220 lbs ✓ Size of manhole in shell 16" x 12" ✓ Size of compensating ring 39" x 36 1/8" x 1 1/2" ✓ No. and Description of Furnaces in each boiler 3 Suspension ✓ Rule Outside diameter 46 1/16" ✓ Length of plain part top / bottom / Thickness of plates crown 2 1/2" ✓ bottom 3/2" ✓

Description of longitudinal joint Weld ✓ No. of strengthening rings ✓ Working pressure of furnace by the rules 220 lbs ✓ Combustion chamber plates: Material Steel ✓ Thickness: Sides 1/16" ✓ Back 2 1/2" ✓ Top 1/16" ✓ Bottom 7/8" ✓ Pitch of stays to ditto: Sides 8 1/4" x 9" ✓ Back 8 1/4" x 7 1/2" ✓

Top 8 1/4" x 9" If stays are fitted with nuts or riveted heads Nuts ✓ Working pressure by rules 222 lbs ✓ Material of stays Steel ✓ Diameter at smallest part 1.730" ✓ Area supported by each stay 70.125" ✓ Working pressure by rules 222 lbs ✓ End plates in steam space: Material Steel ✓ Thickness 1 1/4" ✓

Pitch of stays 20 1/4" x 15" ✓ How are stays secured Double Nuts ✓ Working pressure by rules 230 lbs ✓ Material of stays Steel ✓ Diameter at smallest part 5.940" ✓

Area supported by each stay 294" ✓ Working pressure by rules 222 lbs ✓ Material of Front plates at bottom Steel ✓ Thickness 1" ✓ Material of lower back plate Steel ✓ Thickness 3/2" ✓ Greatest pitch of stays 14" x 8 1/4" ✓ Working pressure of plate by rules 255 lbs ✓ Diameter of tubes 2 1/4" ✓

Pitch of tubes 4" x 3 3/8" ✓ Material of tube plates Steel ✓ Thickness: Front 1" ✓ Back 1 1/16" ✓ Mean pitch of stays 9 3/8" ✓ Pitch across wide water spaces 14" ✓ Working pressures by rules 237 lbs ✓ Girders to Chamber tops: Material Steel ✓ Depth and thickness of girder at centre 11 1/2" x 1 1/2" ✓ Length as per rule 40 1/2" ✓ Distance apart 8 1/4" ✓ Number and pitch of Stays in each Three 9" ✓

Working pressure by rules 222 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 WORKMAN, CLARK & CO., LIMITED. Manufacturer.

F. Cunningham
 Is the approved plan of boiler forwarded herewith. ✓

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

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 and workmanship are sound and 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) ... £ When received, 191

R. Lee Jones
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute Assigned
 TUES. 7 DEC 1926
See report attached



14508
5-50
1966

2003

РЕБОРЛ ОИ ВОЛЛЕББ

...

...

...

...

...



© Lloyd's Register Foundation