

## REPORT ON BOILERS.

No. 24704

Date of writing Report 10 When handed in at Local Office 20 Jan 1911 Port of Sunderland  
 No. in Survey held at Reg. Book. 88 "Mediterraneo" Date, First Survey June 10 Last Survey Jan 13 1911  
 Master Zarabochia Built at Sunderland By whom built Messrs Wm Doxford & Sons Ltd Tons Gross 4539 Net 2800  
 Engines made at Sunderland By whom made Wm Doxford & Sons Ltd When built 1910-11  
 Boilers made at Sunderland By whom made Wm Doxford & Sons Ltd when made 1910-11  
 Registered Horse Power Owners &c. Hon. di Nav. a Vap. Lussino Port belonging to Lussimpiccolo

## MULTITUBULAR BOILERS MAIN, AUXILIARY OR PORTER

(Letter for record) Total Heating Surface of Boilers 1583 Manufacturers of Steel Spencer & Sons Ltd  
 Boilers One Single ended Working Pressure 180 lbs Is forced draft fitted No. and Description of  
 No. of Certificate 2861 Can each boiler be worked separately yes Tested by hydraulic pressure to 360 lbs Date of test 6-9-10  
 safety valves to each boiler 2 - Spring loaded Area of fire grate in each boiler 35.4 sq ft No. and Description of  
 Are they fitted with easing gear yes Area of each valve 7.068 sq ft Pressure to which they are adjusted 185 lbs  
 Smallest distance between boilers or uptakes and bunkers or woodwork 2'-9" made  
 Material of shell plates Steel Thickness 1 3/8" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 4 3/8"  
 Lap of plates or width of butt straps 16 3/8" Per centages of strength of longitudinal joint rivets 86.8 plate 85.6 Working pressure of shell by  
 rules 180 lbs Size of manhole in end 16 x 12 Size of compensating ring flanged No. and Description of Furnaces in each  
 boiler Two Corn. Material Steel Outside diameter 3'-9 3/4" Length of plain part top Thickness of plates crown 35" bottom 64"  
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 185 lbs Combustion chamber  
 plates: Material Steel Thickness: Sides 2 1/32" Back 1/4" Top 2 1/32" Bottom 3/4" Pitch of stays to ditto: Sides 8 x 10" Back 9 1/2 x 8 3/8"  
 Top 9 1/2 x 8 3/8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 lbs Material of stays Steel Area at  
 smallest part 1.43 sq ft Area supported by each stay 46.5 sq ft Working pressure by rules 180 lbs End plates in steam space: Material Steel Thickness 1 3/8"  
 Pitch of stays 14 x 19 1/4 How are stays secured D.N. Wash Working pressure by rules 181 lbs Material of stays Steel Area at smallest part 6.1 sq ft  
 Area supported by each stay 310 Working pressure by rules 184 lbs Material of Front plates at bottom Steel Thickness 13/16" Material of  
 lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 x 9 1/8 Working pressure of plate by rules 181 lbs Diameter of tubes 3 1/4"  
 Pitch of tubes 14 x 14 1/2 Material of tube plates Steel Thickness: Front 1 3/32" Back 13/16" Mean pitch of stays 11 1/4" Pitch across wide  
 water spaces 13 1/4 Working pressures by rules 184 lbs Girders to Chamber tops: Material Steel Depth and thickness of  
 order at centre 8 1/4 x 1 1/2 Length as per rule 31 9/16 Distance apart 8 5/8 Number and pitch of Stays in each 2 @ 9 1/2"  
 Working pressure by rules 181 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  
 les Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 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

Arthur Dorefora

The foregoing is a correct description,

Manufacturer.

Dates During progress of work in shops - - -  
 while During erection on board vessel - - -  
 See Machinery report attached

Is the approved plan of boiler forwarded herewith

Yes.

Total No. of visits

## GENERAL REMARKS

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

This Boiler has been built under special survey the materials & workmanship  
 of good quality & the hydraulic test proved satisfactory, it has been  
 evenly fitted on board & its safety valves adjusted under steam to above  
 pressure.

Survey Fee ... £  
 Travelling Expenses (if any) £  
 When applied for, 19  
 When received, 19  
 Committee's Minute  
 signed See Minute on Sld Rpt  
 24704 attached  
 TUE. 24 JAN 1911  
 William Dorefora  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping  
 Lloyd's Register Foundation  
 005358-005366-0155