

REPORT ON BOILERS.

No. 6636

MIN. 12 JUL 1909

Date of writing Report 9th July 1909 When handed in at Local Office 10 Port of Belfast
 No. in Survey held at Belfast Date, First Survey 14th Sept 1908 Last Survey 8th July 1909
 Reg. Book. J.P. Karoola (Number of Visits 79) Gross 7391
 on the Tons Net 4324
 Master Built at Belfast By whom built Harland & Wolff L. When built 1909
 Engines made at Belfast By whom made when made
 Boilers made at By whom made when made
 Registered Horse Power Owners M^r J. J. Murphy & M^r J. J. Murphy Port belonging to Melbourn

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY Manufacturers of Steel R. Polville & Sons

(Letter for record S) Total Heating Surface of Boilers 584.4 sq ft Is forced draft fitted No. and Description of Boilers 2-Lynch End England Working Pressure 2.5 lbs tested by hydraulic pressure 4.20 lbs Date of test 10.2.09
 No. of Certificate 416 Can each boiler be worked separately Yes Area of fire grate in each boiler 65.2 sq ft No. and Description of safety valves to each boiler 2-Sweet Springs Area of each valve 8.29 sq Pressure to which they are adjusted 21.5 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 About 6 ft Mean dia. of boilers 15.9 Length 11.6
 Material of shell plates Steel Thickness 1 1/8 Range of tensile strength 29.33 tons are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Lap Riveting. seams Auto Rivets Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 0
 Top of plates on width of butt straps 2 3/4 Per centages of strength of longitudinal joint rivets 98.7 Working pressure of shell by rules 250 lbs Size of manhole in shell 17 x 13 Size of compensating ring No. and Description of Furnaces in each boiler 3-Heightons Material Steel Outside diameter 49 1/2 Length of plain part top 6 Thickness of plates crown 3 3/4 bottom 3 1/2
 Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 240 lbs Combustion chamber plates: Material Steel Thickness: Sides 5 Back 3 1/2 Top 5 Bottom 3 1/2 Pitch of stays to ditto: Sides 8 1/2 x 7 1/2 Back 8 1/2 x 7 1/2
 22-1-Top 8 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 220 lbs Material of stays Steel Diameter at 23-4-smallest part 1 1/2 Area supported by each stay 6.5 sq Working pressure by rules 241 lbs And plates in steam space: Material Steel Thickness 1 1/2
 23-5-09 Pitch of stays 8 1/2 x 15 1/2 How are stays secured Nuts inside Working pressure by rules 215 lbs Material of stay Steel Diameter at smallest part 2 1/2
 Area supported by stay 29 1/2 sq Working pressure by rules 252 lbs Material of Front plates at bottom Steel Thickness 7 Material of Lower back plate Steel Thickness 4/8 Greatest pitch of stays 12 1/2 Working pressure of plate by rules 264 lbs Diameter of tubes 2 1/2
 Pitch of tubes 3 1/2 x 16 1/2 Material of tube plates Steel Thickness: Front 5 Back 1 1/2 Mean pitch of stays 7 1/2 x 7 1/2 Pitch across wide water spaces 13 1/2 Working pressures by rule 348 lbs Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 10 x (7/8 x 2) Length as per rule 35 1/2 Distance apart 8 1/2 Number and pitch of Stays in each 3-7 1/2
 Working pressure by rules 217 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,
 R. Harland & Wolff Ltd Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

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

Survey Fee ... £ : : When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

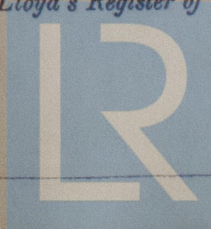
Foreign Shipping

Committee's Minute

TUES. 13 JUL 1909

Assigned

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



Lloyd's Register
 Foundation

5100-155M

Surabaya Rumpo

Engine Room, General, $9 \times 6 \frac{1}{2} \times 10$ - *Implex*

1st Deck

$10 \frac{1}{2} \times 7 \times 10$

Machinery

$4 \times 5 \times 10$

Ballast

$10 \times 10 \times 10$

Sanitary

$6 \times 6 \times 6$

2. Water

$11 \frac{1}{2} \times 15 \frac{1}{2} \times 24$

Main Centrifugal

14

Aux.

$6 \frac{1}{2}$

Fresh Water

$4 \frac{1}{2} \times 3 \times 6$

Hot

$5 \times 5 \times 6$

Cooling

$4 \frac{1}{2} \times 2 \frac{1}{2} \times 4$

GENERAL REMARKS



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