

## REPORT ON BOILERS.

No. 6376

SAT. 26 OCT 1907

Received at London Office

Date of writing Report Belfast When handed in at Local Office 19 Port of Southern Survey  
 No. in Survey held at Belfast Date, First Survey 1907  
 Reg. Book SS. Loughguais (Number of Visits 1) Tons { Gross 9201  
 on the Belfast Net 5792  
 Master Belfast Built at Belfast By whom built Harland & Wolff Ltd. When built 1907  
 Engines made at Belfast By whom made Harland & Wolff Ltd. when made Belfast  
 Boilers made at Belfast By whom made Harland & Wolff Ltd. when made Belfast  
 Registered Horse Power 1200 Owners Lloyds American Oil Coy Ltd. Port belonging to Belfast

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel B. Colville & Sons Ltd.

(Letter for record S) Total Heating Surface of Boilers 2482 sq ft Is forced draft fitted No No. and Description of  
 Boilers One - Cylindrical Single End Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 7-5-07  
 No. of Certificate 397 Can each boiler be worked separately Yes Area of fire grate in each boiler 40 1/2 sq ft and Description of  
 safety valves to each boiler Two - Direct Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 215 lbs  
 Are they fitted with easing gear No In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No  
 Smallest distance between boilers or uptakes and bunkers or woodwork 3 ft Mean dia. of boilers 11'-6" Length 11'-0"  
 Material of shell plates Steel Thickness 1/4" Range of tensile strength 28-32 tons the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams Lap R. long. seams Butt Lap Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 9"  
 Top of plates or width of butt straps 20 1/2" Per centages of strength of longitudinal joint rivets 89.3 Working pressure of shell by  
 rules 242 lbs Size of manhole in shell 16" x 12" Size of compensating ring No No. and Description of Furnaces in each  
 boiler 2 - Nannigans Material Steel Outside diameter 44 1/2" Length of plain part 3' Thickness of plates crown 3/32"  
 Description of longitudinal joint Weld No. of strengthening rings 1 Working pressure of furnace by the rules 238 lbs bottom 3/32"  
 plates: Material Steel Thickness: Sides 5/8" Back 1/2" Top 5/8" Bottom 3/32" Pitch of stays to ditto: Sides 7 1/2" x 7 1/2" Back 7 1/2" x 7 1/2"  
 Top 8 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads Not inside Working pressure by rules 216 lbs Material of stays Steel Diameter at  
 smallest part 1 1/2" Area supported by one stay 54 1/2" Working pressure by rules 244 lbs plates in steam space: Material Steel Thickness 1/16"  
 Pitch of stays 16" x 15 1/2" How are stays secured By nuts & washers Working pressure by rules 216 lbs Material of stays Steel Diameter at smallest part 2 5/16"  
 Area supported by one stay 248 sq ft Working pressure by rules 239 lbs Material of Front plates at bottom Steel Thickness 1/16" Material of  
 Lower back plate Steel Thickness 1/16" Greatest pitch of stays 1/3" Working pressure of plate by rules 574 lbs diameter of tubes 3"  
 Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1/16" Back 1/16" Mean pitch of stay 8 1/2" x 8 1/2" Pitch across wide  
 water spaces 14 1/2" Working pressures by rule 304 lbs Material of Chamber tops: Material Iron Depth and thickness of  
 girder at centre 9" x (8 x 2) Length as per rule 29 1/2" Distance apart 8 1/2" Number and pitch of Stays in each 2 - 7 1/2"  
 Working pressure by rules 226 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,  
E. J. Cunningham Harland & Wolff Ltd.

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

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

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

Committee's Minute

TUES. 29 OCT 1907

Assigned

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

Lloyd's Register  
 Foundation



# Donkey Pumps.

- 2 - 11" H.M. Main Circulating Pumps  
2 - 10" x 20" x 15" Lurin Kenton's Air Pumps  
2 - 14" x 9" x 12" Duplex Feed Pumps  
1 - 16" x 10" x 14" Fire Pump  
1 - 8" x 6" x 12" Sanitary  
1 - 12" x 10 1/4" x 10" Ballast  
1 - 7 1/2" x 4 1/2" x 10" Donkey Feed  
1 - 10" x 8 1/2" x 12" Bilge  
1 - 7 1/2" x 5" x 6" Water Service  
4 Feed injectors for Main Boilers  
1 Donkey



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