

## REPORT ON BOILERS.

No. 7483

MON. JAN. 18. 1915

Writing Report 13<sup>th</sup> Jan 1915 When handed in at Local Office 19 Port of Belfast  
 in Survey held at Belfast Date, First Survey 1<sup>st</sup> Oct 1913 Last Survey 8<sup>th</sup> Jan 1915  
 Book. S.S.S. Ebro (Number of Visits 110) Tons { Gross 8479  
 on the S.S.S. Ebro Net 5173  
 Built at Belfast By whom built Workman Clark & Co. Ltd. built 1915  
 Rivets made at Belfast By whom made - when made -  
 Plates made at Belfast By whom made - when made -  
 Horse Power - Owner Royal Mail S. P. Coy Port belonging to Belfast

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Boardman & Co. Ltd.  
 for record 5 Total Heating Surface of Boilers 5860 sq. ft. Is forced draft fitted Yes No. and Description of  
2 Single End Cylinders Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 10-9-14  
 of Certificate 466 Can each boiler be worked separately Yes Area of fire grate in each boiler 7 1/2 sq. ft. No. and Description of  
 valves to each boiler 2-Direct Spring Area of each valve 11.04 sq. in. Pressure to which they are adjusted 215 lbs  
 they fitted with casing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes  
 least distance between boilers or uptakes and bunkers or woodwork about 15" Mean dia. of boilers 16'-0" Length 11'-9"  
 material of shell plates Steel Thickness 1 1/8" Range of tensile strength 30 1/2 to 33 1/2 tons Are the shell plates welded or flanged No  
 grip. of riveting: cir. seams Lap 9x5 long. seams 9/Butt, 1x6x6 of rivet holes in long. seams 1 1/8" Pitch of rivets 10 1/2"  
plates width of butt straps 23 1/4" Per centages of strength of longitudinal joint rivets 90.5% plate 84.5% Working pressure of shell by  
253 lbs Size of manhole in shell 18" x 12" Size of compensating ring McNeil No. and Description of Furnaces in each  
4-Monitors Material Steel Outside diameter 44 1/4" Length of plain part top 4' Thickness of plates crown 4 1/4" bottom 3 1/4"  
 description of longitudinal joint Weld No. of strengthening rings Yes Working pressure of furnace by the rules 248 lbs combustion chamber  
 Material Steel Thickness: Sides 3 1/2" Back 3 1/2" Top 3 1/2" Bottom 3 1/2" Pitch of stays to ditto: Sides 8 1/4" x 7 1/4" Back Various  
8 1/4" x 7 1/4" If stays are fitted with nuts or riveted heads Nuts used Working pressure by rules 219 lbs Material of stays Steel Diameter at  
 least part 20 1/4 to 2 1/4 sq. in. supported by each stay 64 sq. in. Working pressure by rules 271 lbs plates in steam space: Material Steel Thickness 1 1/4"  
 of stays 20 x 15 1/4" How are stays secured Butt & Wash Working pressure by rules 216 lbs Material of stays Steel Diameter at smallest part 6 1/8" x 7 1/4"  
30 5/8" supported by each stay 30 5/8" Working pressure by rules 246 lbs Material of Front plates at bottom Steel Thickness 1" Material of  
 rear back plate Steel Thickness 3 1/2" Greatest pitch of stays 14 1/8" Working pressure of plate by rules 227 lbs Diameter of tubes 2 1/2"  
3 1/4" x 3 1/8" Material of tube plate Steel Thickness: Front 1 1/4" Back 1 3/8" Mean pitch of stay 7 1/2" x 7 1/4" Pitch across wide  
 ter spaces 13 1/2" Working pressures by rules 219 lbs Girders to Chamber tops: Material Steel Depth and thickness of  
 der at centre 10" x (7/4 x 2) Length as per rule 33" Distance apart 8 1/2" Number and pitch of Stays in each 3-7 1/2"  
 Working pressure by rules 224 lbs superheater or Steam chest; how connected to boiler Yes 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  
 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 casing gear

The foregoing is a correct description,

FOR WORKMAN, CLARK &amp; CO., LIMITED

Manufacturer.

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

See other sheet

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.)

See other sheet

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

R. F. Beveridge

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

Committee's Minute

TUE. JAN. 19. 1915

Assigned

015292-015301-0645

Lloyd's Register  
Foundation



# List of Donkey Pumps

2 Weir Main Feed	14 x 10 1/2 x 26 - ✓
General	11 x 7 1/2 x 12 - ✓
Wh. Expectan	11 x 7 1/2 x 12 - ✓
aux. Air	8 x 12 x 12 - ✓
aux. Feed	8 x 5 x 12 - ✓
Lamp tank	8 x 4 x 6 - ✓
F. Water	5 x 5 x 6 - ✓
Ballast	8 x 10 x 12 - ✓

## Spare Gear

- 2 Propeller blades
- 1 Thomson Breakdown Coupling
- 1 Piston rod
- 1 Eccentric rod, pulley & trap
- 2 Valve spindles
- 1 Pair Crank pin bushes
- 2 - top end -
- 2 - main bearing -
- 2 Sets H. P. Piston rings
- 1 - H. P. M. P. M. P.
- 1 - Piston valve packing rings
- 1 Air Pump bucket, rod & head valve
- 50 Mann Condenser tubes
- 4 Safety valve springs
- 1 Centrifugal pump impeller & spindle
- 12 Boiler tubes
- 2 Eccentric strap bolts & nuts
- Set of fire bars, bolts etc
- Full gear to Lloyds Rules extra ✓

R. F. Beveridge



© 2021

Lloyd's Register  
Foundation