

Rpt. 5a.

REPORT ON BOILERS.

No. 4859

Received at London Office THU SEP 27 1917

Date of writing Report 25th Sep 1917 When handed in at Local Office 1917

Port of Belfast

Date, First Survey 30th Sep 1914Last Survey 15th Sep 1917

No. in Survey held at Belfast

Reg. Book.

on the S.S. Mullais

(Number of Visits 80)

Gross 7300

Tons

Net 4457

When built 1917

Master

Built at Glasgow

By whom built Harland & Wolff L^d

When made

Engines made at Belfast

By whom made

When made

Boilers made at

By whom made

Registered Horse Power

Owners Lampart & Holt L^d

Port belonging to Liverpool

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel D. Colville & Sons L^d

(Letter for record S) Total Heating Surface of Boilers 1775 sq ft Is forced draft fitted No No. and Description of

Boilers One - Single End Cylindrical Working Pressure 215 lb Tested by hydraulic pressure to 430 lb Date of test 20-6-17

No. of Certificate 301 Can each boiler be worked separately Yes Area of fire grate in each boiler 52 1/2 sq ft No. and Description of

safety valves to each boiler 2 Rocket Spring Area of each valve 5.94 sq Pressure to which they are adjusted 215 lb

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 30" Mean dia. of boilers 14'-0" Length 10'-6"

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

Descrip. of riveting: cir. seam Lap Rivet long. seam Stub Rivet Diameter of rivet holes in long. seams 1/2" Pitch of rivets 10"

Gap of plates or width of butt straps 22 1/2" Per centages of strength of longitudinal joint rivets 87.7 Working pressure of shell by

rules 253 lb Size of manhole in shell 16" x 12" Size of compensating ring 12" No. and Description of Furnaces in each

boiler 3 Mousous Material Steel Outside diameter 44 3/8" Length of plain part top 3" Thickness of plates crown 3 1/2"

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 239 lb Combustion chamber

plates: Material Steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 7/8" Pitch of stays to ditto: Sides 9 1/2" x 7" Back 9" x 7 1/2"

Top 8" x 7" If stays are fitted with nuts or riveted heads Veto Working pressure by rules 231 lb Material of stays Steel Diameter at

smallest part 1 7/8" Area supported by each stay 65 1/4 sq Working pressure by rules 241 lb plates in steam space: Material Steel Thickness 1/16"

Pitch of stays 16 1/2" x 15" How are stays secured Nuts & Washers Working pressure by rules 215 lb Material of stays Steel Diameter at smallest part 5.054"

Area supported by each stay 247 1/2 sq Working pressure by rules 251 lb Material of Front plates at bottom Steel Thickness 7/8" Material of

lower back plate Steel Thickness 7/8" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 226 lb diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 9" x 9" Pitch across wide

water spaces 14 1/2" Working pressures by rules 295 lb with 1 1/2" doubler Girders to Chamber tops: Material Iron Depth and thickness of

girder at centre 8" x (7 1/2" x 2) Length as per rule 27 1/2" Distance apart 8' 7 3/4" Number and pitch of Stays in each 3-7"

Working pressure by rules 221 lb Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Yes 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 easing gear

The foregoing is a correct description,

George S. Murray

Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

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

See other sheet

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

See other sheet

Survey Fee ... £ : : When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

TUE - 20 OCT. 1917

Assigned

R. J. O'Brien
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.Lloyd's Register
Foundation

W122-0019 1/2

Belfast

Continuation of Report No. 4859 dated 25th Sep^r 1917 on theS.S. - Millais -List of Pumps

1 Main Circulating Pump	17" pipe	✓
1 Pawi Weirs Feed	13½" x 10" x 21"	✓
1 General Service	10½" x 8" x 21"	✓
1 Lux & Feed	8" x 5½" x 12"	✓
1 Fresh Water	4½" x 5" x 12"	✓
1 Ballast	9" x 11" x 10"	✓
1 Sanitary	8" x 9" x 10"	✓
1 Refuse: Circulating	10" x 12" x 12"	✓

Spare Gear

2 Connecting Rod top end bolts nuts	✓
2 - - - - - bottom - - - - -	✓
2 Main bearing - - - - -	✓
Set coupling bolts	✓
Set feed & bilge pump valves	✓
Iron bolts nuts etc.	✓

Also extra spare gear to owners Specification, A
 list of same will be forwarded later on ✓

R. J. Bennett
 25-9-17



© 2020

Lloyd's Register
Foundation

W122-0019 2/2