

REPORT ON BOILERS.

No. 8405
WED. OCT. 20 1920

Received at London Office

Report 16.10.20 When handed in at Local Office 19 Port of Belfast
Survey held at Belfast Date, First Survey 4.10.1920 Last Survey 7.10.20
the S.S. Donheur (Number of Visits 76) Tons Gross 5327 Net 3170
Lagton Built at Belfast By whom built Harland & Wolff L^{td} When built 1920
de at Belfast By whom made - When made -
le at - By whom made - When made -
Horse Power 5 Owners Liverpool Brazil & River Plate Port belonging to Liverpool
Steam Navigation Co L^{td} D. Colville & Sons L^{td}

TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

record 568) Total Heating Surface of Boilers 1432 sq ft. Is forced draft fitted No No. and Description of
No. Single End by line Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 20-4-20

Can each boiler be worked separately ✓ Area of fire grate in each boiler oil fuel No. and Description of

to each boiler 2 Direct Spinning Area of each valve 7.07 sq Pressure to which they are adjusted 125 lbs

ted with easing gear Les In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

distance between boilers or uptakes and bunkers or woodwork 22' 6" dia. of boilers 12'-6" Length 10'-6"

shell plates Steel Thickness 3/4" Range of tensile strength 28-32 tons the shell plates welded or flanged No

riveting: cir. seams Lap 1/2" long. seams 1/2" dia. rivets 15/16" Pitch of rivets 5 1/2"

width of butt straps 14 1/2" Per centages of strength of longitudinal joint rivets 116.6 plate 84.0 Working pressure of shell by

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

Material Steel Outside diameter 44 1/2" Length of plain part top 4" Thickness of plates crown 3/4" bottom 3/4"

of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 128 lbs Combustion chamber

Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 10" x 8 3/4" Back 9 3/4" x 9"

If stays are fitted with nuts or riveted heads No Working pressure by rules 125 lbs Material of stays Steel Area at

are 1475 2106 sq supported by each stay 87 1/2 sq Working pressure by rules 129 lbs plates in steam space: Material Steel Thickness 3/16"

How are stays secured 1/2" dia. screws into plates Working pressure by rules 129 lbs Material of stays Steel Area at smallest part 5'06 sq

ported by each stay 341 1/2 sq Working pressure by rules 153 lbs Material of Front plates at bottom Steel Thickness 1/8" Material of

plate Steel Thickness 3/4" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 139 lbs Diameter of tubes 3 1/2"

tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1/8" Back 3/4" Mean pitch of stays 9" x 9" Pitch across wide

res 14 1/2" Working pressures by rules 125 lbs Girders to Chamber tops: Material Steel Depth and thickness of

centre 6" x (3/4" x 2) Length as per rule 28 1/2" Distance apart 8 3/4" Number and pitch of Stays in each 2-10"

pressure by rules 141 lbs Steam dome: description of joint to shell ✓ % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

HEATER. Type ✓ Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

CAL DONKEY BOILER— No. Description Manufacturers of steel

By whom made When made Where fixed Working pressure

hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

ating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

of water tubes

The foregoing is a correct description,
For HARLAND & WOLFF L^{td} Manufacturer.

See other sheet

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

W343-0061

© 2020

Lloyd's Register Foundation

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

See other sheet

List of Pumps

1 Pair Main Feed, Mems	11 1/2" x 8" x 24"
1 Main Lin. Dual type. Mems.	11" x 20" x 15"
1 Ballast	10 1/2" x 14" x 24"
1 Bilge	8" x 9" x 18"
1 General	9 1/2" x 7" x 18"
1 Sanitary	6 1/2" x 6 1/2" x 15"
1 Fresh Water	4" x 4" x 5"
1 Oil Boiler Feed	6 1/2" x 4 1/2" x 10"
1 Main Circulating	11" x 16" branches x 10"
2 Forced Lubrication	6 1/2" x 6 1/2" x 15"
1 Oil Fuel Transfer	7" x 8" x 18"
2 - - delivery	3 1/2" x 3 1/2" x 9"

Spare Gear, Principal Items.

- 1 Propeller Shaft
- 1 - - Blade M. Bronze.
- 1 Thomson Coupling
- 1 Set Coupling bolts & nuts for each size coupling needed
- 1 Escape Valve spring of each size needed
- 10 Condenser tubes & 50 Fennels
- 1 Diaphragm each size reducing valve
- 200 Fuel bars
- 12 Boiler tubes
- 1 Valve & spindle for Main Boiler stop valve
- 1 - - - - - head
- 4 Spindles for Check valves
- Circulating Pump: - Set piston rings & Impeller & spindle
- Hi Pump: - Head Value, Backset Value, set suction & delivery valves, valve chest
- Main Feed Pump: - Pump Rod, set piston rings; set suction & delivery valves, valve chest
- Ballast Pump: - Set steam piston & water piston rings
- Bilge Pump: - - - - - & suction & delivery valves
- Also sets gear for all other Pumps
- All spare gear for Lubricator & Gearing as per Rules
- Bolts, nuts, iron bars, etc.

Certificate (if required) to be sent to

The amount of Entry Fee .. £	See other sheet	When applied for.
Special £		19
Donkey Boiler Fee £		When received.
Travelling Expenses (if any) £		19

Committee's Minute

TUE NOV. 23 1920

Assigned

R. F. Beumbe
Engineer Surveyor to Lloyd's Register of Shipping



© 2020

Lloyd's Register Foundation