

REPORT ON BOILERS

No. 7093

TUE. JUN. 11. 1912

Date of writing Report *4th June 1912* When handed in at Local Office *Belfast* 10 Port of *Belfast*
 No. in Survey held at *Belfast* Date, First Survey *May. 3.* Last Survey *June 6th 1912*
 Reg. Book. *706* on the *S.S.S. Graphic* (Number of Visits *14.*) Gross *2022* Tons Net *444*
 Master *A. Masill* Built at *Belfast* By whom built *Harland & Wolff L^d* When built *1906*
 Engines made at *Belfast* By whom made *Belfast S.S. Coy L^d* when made
 Boilers made at *Belfast* By whom made *Belfast S.S. Coy L^d* when made
 Registered Horse Power *1* Owners *Belfast S.S. Coy L^d* Port belonging to *Belfast*

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel *D. Cahill's Lane L^d*

Letter for record *S* Total Heating Surface of Boilers *2129 sq ft* Is forced draft fitted *No* No. and Description of Boilers *1 Single End. by line* Working Pressure *210 lbs* Tested by hydraulic pressure to *200* Date of test *✓*
 No. of Certificate *✓* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *572 sq ft* No. and Description of Safety valves to each boiler *Two - Direct Spring* Area of each valve *7.04 sq* Pressure to which they are adjusted *200 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 14"* Mean dia. of boilers *14'-0"* Length *10'-6"*
 Material of shell plates *Steel* Thickness *1 1/2"* Range of tensile strength *29-32 tons* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *Lap Wldg long. Butt. Seams* Diameter of rivet holes in long. seams *1 1/32"* Pitch of rivets *70"*
 Spacing of plates or width of butt straps *22 1/2"* Per centages of strength of longitudinal joint *89.4* Working pressure of shell by rules *252 lbs* Size of manhole in shell *16" x 12"* Size of compensating rivets *1 1/2"* No. and Description of Furnaces in each boiler *3 - Morrison's* Material *Steel* Outside diameter *45"* Length of plain part *10"* Thickness of plates *2 1/2"* crown *2 1/2"* bottom *5/8"*
 Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *237 lbs* combustion chamber plates: Material *Steel* Thickness: Side *5/8 + 19/32"* Back *19/32"* Top *5/8 + 19/32"* Bottom *7/8"* Pitch of stays to ditto: Sides *7 3/4" x 7"* Back *7 3/8" x 7 3/8"*
 Top *6" x 7"* If stays are fitted with nuts or riveted heads *Nuts visible* Working pressure by rules *219 lbs* Material of stays *Steel* Diameter at smallest part *1 1/8" to 1 1/4"* Area supported by *one stay* Working pressure by rules *218 lbs* End plates in steam space: Material *Steel* Thickness *1 1/2"*
 Pitch of stays *7 3/4" x 14 3/4"* How are stays secured *9 Nuts - 4 Washers* Working pressure by rules *278 lbs* Material of stay *Steel* Diameter at smallest part *2 5/16" + 2 7/8"*
 Area supported by *one stay* Working pressure by rules *248 lbs* Material of Front plates at bottom *Steel* Thickness *1 5/16"* Material of lower back plate *Steel* Thickness *1 3/16"* Greatest pitch of stays *13"* Working pressure of plate by rules *576 lbs with 1 5/16" Double* Diameter of tubes *2 1/2"*
 Pitch of tubes *4" x 4"* Material of tube plates *Steel* Thickness: Front *1 5/16"* Back *1 3/16"* Mean pitch of stays *8" x 8"* Pitch across wide water spaces *14"* Working pressures by rules *328 lbs with 5/8" Double* Girders to Chamber tops: Material *Iron* Depth and thickness of girder at centre *8" x 8" x 2"* Length as per rule *27"* Distance apart *8 1/4" + 8"* Number and pitch of Stays in each *3 - 7"*
 Working pressure by rules *232 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, Manufacturer.

Is the approved plan of boiler forwarded herewith
 Total No. of visits

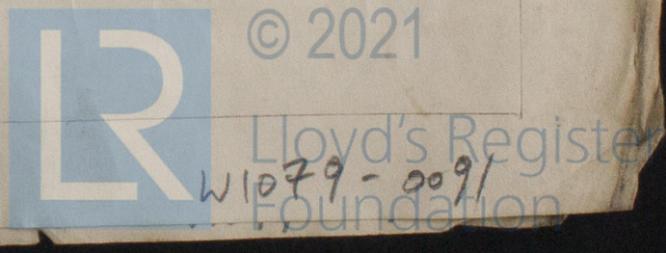
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

✓

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

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

Committee's Minute *FRI. JUN. 14. 1912*
 Assigned



IF THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

Donkey Pumps

2 Weirs Feed
General
Ballast
Sanitary
F Water
Main Centrif

14" x 10 1/2" x 26"

6" x 4 1/4" x 9"

4 1/2" x 4 1/2" x 6"

6" x 4 1/4" x 6"

4" x 4" x 5"

12" pipe



pt. 4.
of writin
No. in S
Reg. Book.
706 of
Master
Engines ma
Boilers ma
Registered
Nom. Horse
ENGINE
Dia. of Cyl
Is the scre
n the prop
etween the
iners are f
Dia. of Tum
ollars //
No. of Feed
No. of Bilg
No. of Don
In Engine
No. of Bilge
Are all the b
Are all conn
Are they fix
Are they eac
What pipes
Are all Pip
Are the Bilg
Dates of ex
Is the Scre
OILERS
Total Heat
Working E
Can each bo
each boiler
Smallest dist
Thickness /
long. seams
Per centages
Size of comp
Length of pl
Working pre
Pitch of stay
Material of
Material
Diameter at
Thickness
Diameter of
Pitch across
thickness of
Working pr
separately
holes
If stiffened w
Working pr