

REPORT ON BOILERS.

No. 25750.
TUES. 24 SEP 1907

Received at London Office

Date of writing Report *24th Sep 1907* When handed in at Local Office *1907* Port of *Glasgow*

No. in Survey held at *Dumbarton* Date, First Survey *30th May* Last Survey *12th Sept 1907*

Reg. Book. on the *Austrian Lloyd's Arsenal No. 112.* (Number of Visits) *12* Gross Tons *1907* Net

Master Built at By whom built When built

Engines made at By whom made when made

Boilers made at *Dumbarton* By whom made *Denny & Co (S.O. 4256B)* when made *1907*

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers *6855^{sq} ft* Is forced draft fitted *—* No. and Description of Boilers *3 single ended cylindrical* Working Pressure *200* Tested by hydraulic pressure to *—* Date of test *—*

No. of Certificate *—* Can each boiler be worked separately *—* Area of fire grate in each boiler *55^{sq} ft* No. and Description of safety valves to each boiler *—* Area of each valve *—* Pressure to which they are adjusted *—*

Are they fitted with easing gear *—* 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 *—* Mean dia. of boilers *14' 9"* Length *11' 8"*

Material of shell plates *steel* Thickness *1 5/16"* Range of tensile strength *28 1/2 - 32* Are the shell plates welded or flanged *no*

Descrip. of riveting: cir. seams *double lap* long. seams *triple butt* Diameter of rivet holes in long. seams *1 3/8"* Pitch of rivets *9 1/2"*

Lap of plates or width of butt straps *20"* Per centages of strength of longitudinal joint rivets *92* plate *85* Working pressure of shell by rules *202* Size of manhole in shell *16" x 12"* Size of compensating ring *M. Nuts* No. and Description of Furnaces in each boiler *3 Doughtons* Material *steel* Outside diameter *46 1/4"* Length of plain part *top 11' 8" bottom 11' 8"* Thickness of plates *5/8"* crown *5/8"* bottom *5/8"*

Description of longitudinal joint *weld* No. of strengthening rings *—* Working pressure of furnace by the rules *217* Combustion chamber plates: Material *steel* Thickness: Sides *2 1/32"* Back *2 1/32"* Top *2 1/32"* Bottom *2 1/32"* Pitch of stays to ditto: Sides *9 1/8"* Back *8 1/4" x 8"* Top *9 x 7 3/4"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *206* Material of stays *iron 2 1/2"* Diameter at smallest part *1.73* Area supported by each stay *72^{sq} in* Working pressure by rules *200* End plates in steam space: Material *steel* Thickness *1"* Pitch of stays *15" x 15 1/2"* How are stays secured *2 nuts* Working pressure by rules *202* Material of stays *steel* Diameter at smallest part *5.05"* Area supported by each stay *232^{sq} in* Working pressure by rules *217* Material of Front plates at bottom *steel* Thickness *7/8"* Material of Lower back plate *steel* Thickness *2 1/8"* Greatest pitch of stays *13"* Working pressure of plate by rules *245* Diameter of tubes *2 1/2"* Pitch of tubes *3 3/4" x 3 3/4"* Material of tube plates *steel* Thickness: Front *1 1/4 3/8"* Back *3/4"* Mean pitch of stays *7 1/2"* Pitch across wide water spaces *13 1/2"* Working pressures by rules *560 & 224* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *10" x 3 1/4"* Length as per rule *32* Distance apart *7 3/4"* Number and pitch of Stays in each *(2) 9"*

Working pressure by rules *206* Superheater or Steam chest: how connected to boiler *none* 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,

Denny & Co. Manufacturer.

Dates of Survey: During progress of work in shops - *1907 May 30 June 6. 13 July 1. 8. 9* Is the approved plan of boiler forwarded herewith *yes to be returned to the office.* while building: During erection on board vessel - *Aug. 6. 12. 15-23 Sep 2. 12* Total No. of visits *12*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *As far as completed these boilers have been built under survey, the materials and workmanship are of good description. To complete this survey the boilers have to be put together, riveted, stays & tubes fitted and the boilers tested by hydraulic pressure 1 1/4 tons per sq. inch. (To be forwarded in pieces to Trieste)*

Survey Fee ... £ *70* : When applied for, *23 SEP 1907* 19 *1908*

Travelling Expenses (if any) £ : : When received, *3. 8. 1908*

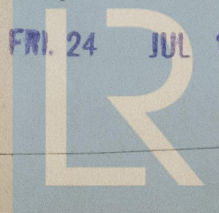
A. McEland
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Glasgow 23 SEP 1907

Committee's Minute

Assigned *Deferred for completion*

FRI. 24 JUL 1907



Lloyd's Register Foundation

Write "Sheer Strake" opposite its corresponding letter.

FLA
(If
GAE

For Enclosure to

Enclosure to
Lloyd

DENNY & Co., Dumbarton.

No.

81107 Juncos

De Witt

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Richard D. Hunt
1898

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