

REPORT ON BOILERS.

No. 24893

TUES. FEB 19 1907

Port of *Glasgow*

Received at London Office

No. in Survey held at *Dumbarton*

Date, first Survey *26 July 06*

Last Survey *8 Feb 1907*

Reg. Book. on the *S.S. "Cubra"*

(Number of Visits) Tons { Gross Net

Master Built at *Dumbarton* By whom built *Tom Denny & Co* When built *1907*

Engines made at *Dumbarton* By whom made *Denny & Co* when made *1907*

Boilers made at *Dumbarton* By whom made *Denny & Co* when made *1907*

Registered Horse Power Owners *British India S.N.C. Ltd* Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel *Lanark Dumbarton & Co*

(Letter for record) Total Heating Surface of Boilers *1172 sq ft* Is forced draft fitted *No* No. and Description of Boilers *1 Cylindrical*

No. of Certificate *8669* Can each boiler be worked separately Working Pressure *180 lbs* Tested by hydraulic pressure to *260 lbs* Date of test *14/12/06*

safety valves to each boiler *2 direct spring* Area of fire grate in each boiler *39.8 sq ft* No. and Description of safety valves *180 lbs*

Are they fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *down down side*

Smallest distance between boilers or uptakes and bunkers or woodwork *15"* Mean dia. of boilers *12'-0 3/4"* Length *10'-1 1/2"*

Material of shell plates *steel* Thickness *1 1/8"* Range of tensile strength *25-32* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *double lap* long. seams *butt* Diameter of rivet holes in long. seams *1 3/16"* Pitch of rivets *5"*

Lap of plates or width of butt straps *17 1/2"* Per centages of strength of longitudinal joint rivets *90.5* Working pressure of shell by plate *85.1*

rules *204 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *34 x 34 x 1 1/8"* No. and Description of Furnaces in each boiler *2 divisions*

Description of longitudinal joint *welded* No. of strengthening rings Working pressure of furnace by the rules *190* Combustion chamber plates: Material *steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *15/16"*

Top *7 1/2" x 7 3/4"* Pitch of stays to ditto: Sides *7 3/4" x 7 3/4"* Back *7 1/2" x 7 3/4"* Diameter at smallest part *1-4/16"*

Area supported by each stay *60 sq in* Working pressure by rules *188* End plates in steam space: Material *steel* Thickness *1 3/8"*

Pitch of stays *17 x 15 1/2"* How are stays secured *2 nuts* Working pressure by rules *206* Material of stays *steel* Diameter at smallest part *5-4/16"*

Area supported by each stay *255* Working pressure by rules *212* Material of Front plates at bottom *steel* Thickness *7/8"* Material of Lower back plate *steel*

Thickness *7/8"* Greatest pitch of stays *14 1/2"* Working pressure of plate by rules *180* Diameter of tubes *3 1/2"*

Pitch of tubes *4 5/8"* Material of tube plates *steel* Thickness: Front *7/8"* Back *13/16"* Mean pitch of stays *9 1/4"* Pitch across wide water spaces *14 1/2" with 3/4" double*

Working pressures by rules *180 lbs* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *7 1/2" x 1 1/2"*

Length as per rule *27 1/2* Distance apart *7 3/4"* Number and pitch of Stays in each *(3) 7 1/2"*

Working pressure by rules *196* 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

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

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

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler

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

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

Lap of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates

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

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

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

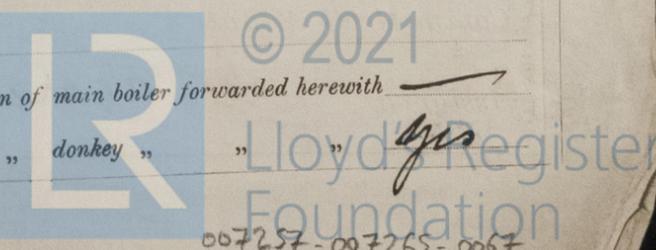
Thickness of water tubes

The foregoing is a correct description, *W. Denny & Co* Manufacturers

See accompanying report

Dates of Survey while building { During progress of work in shops - - - During erection on board vessel - - - Total No. of visits

Is the approved plan of main boiler forwarded herewith



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

This Donkey Boiler has been made under Survey. The materials & workmanship are of good description & the Hydraulic test proved satisfactory.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	10
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	10

A. McKeand

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

Committee's Minute *Glasgow* 1 FEB 1907

Assigned

See accompanying report.

A. B.



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