

REPORT ON BOILERS.

 No. 25-141
 WED. 8 MAY 1907
Port of *Glasgow*

Received at London Office

 No. in Survey held at *Glasgow & Newcastle* Date, first Survey *12 Nov 06* Last Survey *17 Apr 1907*
 Reg. Book.
66 on the *Shue S S DICH-TAO*

(Number of Visits)

 Gross *1074*
 Tons Net *652*
Master _____ Built at *Newcastle* By whom built *Bartholme Leslie (N° 416)* When built *1907*Engines made at *Glasgow* By whom made *Ross & Duncan (N° 703)* when made *1907*Boilers made at *do* By whom made *do* (*N° 1119*) when made *1907*Registered Horse Power _____ Owners *Russian Steamer Co. Ltd.* Port belonging to *Odessa*MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Norris Stewart & Lloyd*(Letter for record *P.*) Total Heating Surface of Boilers *365 sq ft* Is forced draft fitted *no* No. and Description ofBoilers *one single ended* Working Pressure *90 lbs* Tested by hydraulic pressure to *180 lbs* Date of test *2.2.07*No. of Certificate *8751* Can each boiler be worked separately *✓* Area of fire grate in each boiler *19.8 sq ft* No. and Description ofsafety valves to each boiler *Pair spring loaded* Area of each valve *3.97 sq in* Pressure to which they are adjusted *95*Are they fitted with easing gear *✓* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *no*Smallest distance between boilers or uptakes and bunkers or woodwork *7 in* Mean dia. of boilers *7'-6"* Length *7'-6"*Material of shell plates *steel* Thickness *1/2"* Range of tensile strength *38/32 tons* Are the shell plates welded or flanged *lap joint*Descrip. of riveting: cir. seams *single fit* long. seams *0. rivet* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *2 7/8"*Lap of plates *on width of butt straps* *4 1/8"* Per centages of strength of longitudinal joint rivets *71%* Working pressure of shell byrules *95 lbs* Size of manhole in shell *15" x 11 1/2"* Size of compensating ring *6 1/2" x 1/2"* plate *69.6%* No. and Description of Furnaces in eachboiler *2 plain* Material *steel* Outside diameter *29"* Length of plain part *62"* Thickness of plates *7/16"*Description of longitudinal joint *weld* No. of strengthening rings *none* Working pressure of furnace by the rules *107 lbs* Combustion chamberplates: Material *steel* Thickness: Sides *1/2"* Back *1/2"* Top *15/32"* Bottom *1/2"* Pitch of stays to ditto: Sides *9 1/4" x 7 1/2"* Back *9" x 8 3/4"*Top *8 1/2" x 8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *94 lbs* Material of stays *steel* Diameter atsmallest part *1.01 in* Area supported by each stay *79 sq in* Working pressure by rules *102 lbs* End plates in steam space: Material *steel* Thickness *1/16"*Pitch of stays *14" x 13"* How are stays secured *0. nuts* Working pressure by rules *116 lbs* Material of stays *steel* Diameter at smallest part *2.4 in*Area supported by each stay *182 sq in* Working pressure by rules *137 lbs* Material of Front plates at bottom *steel* Thickness *1/16"* Material ofLower back plate *steel* Thickness *1/16"* Greatest pitch of stays *12" x 8 3/4"* Working pressure of plate by rules *148 lbs* Diameter of tubes *3"*Pitch of tubes *4" x 4"* Material of tube plates *steel* Thickness: Front *1/16"* Back *5/8"* Mean pitch of stays *11 1/4"* Pitch across widewater spaces *12"* Working pressures by rules *117 lbs* Girders to Chamber tops: Material *iron* Depth and thickness ofgirder at centre *5" x 1 1/4"* Length as per rule *19 7/8"* Distance apart *8 1/2"* Number and pitch of Stays in each *1 @ 8"*Working pressure by rules *91 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 _____

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 _____ 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

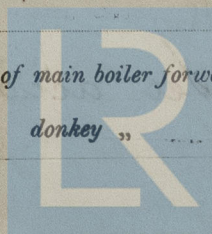
plates _____ Radius of do. _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____

Thickness of water tubes _____

The foregoing is a correct description,

Ross & Duncan Manufacturer.
 Dates of Survey while building
 During progress of work in shops - - -
 During erection on board vessel - - -
 Total No. of visits
*See accompanying report*Is the approved plan of main boiler forwarded herewith *no*

" " " donkey " " "



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005726-005739-0148

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

This boiler has been built under special survey: the material and workmanship being good, and satisfactorily tested under hydraulic pressure.

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

Committee's Minute

Assigned

Glasgow 22 APR 1907

FRI. 10 MAY 1907

See accompanying report

A. J. Thomas John H. Heck.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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