

REPORT ON BOILERS.

No. 50889

Port of Newcastle

Excised at London Office **TUES. 22 MAY 1906**

No. in Survey held at Newcastle Date, first Survey Dec 8. 1905 Last Survey May 14 1906
 of Safety Reg. Book. on the Donkey boiler for S/S Salatis (Number of Visits)
 Gross Tons 4775
 Net Tons 3059
 Built at Newcastle By whom built Sir W.G. Armstrong Whitworth & Co. Ltd when built 1906
 Engines made at Wallsend By whom made Wallsend Slip & Eng. Co. Ltd when made 1906
 Boilers made at Wallsend By whom made Wallsend Slipway & Eng. Co. Ltd when made 1906
 Registered Horse Power Owners "Kosmos" Port belonging to Hamburg

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J.S. Spencer & Sons

Letter for record S. Total Heating Surface of Boilers 8230 Is forced draft fitted
 No. and Description of Boilers 1 St. 6. Working Pressure 180. Tested by hydraulic pressure to 360 Date of test 18/12/05
 No. of Certificate 4140. Can each boiler be worked separately Area of fire grate in each boiler 27.5 No. and Description of Safety valves to each boiler 2 Spring Area of each valve 3.912 Pressure to which they are adjusted 185 lb
 Are they fitted with easing gear Yes 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 18" ^{outside} Mean dia. of boilers 10ft Length 10ft
 Material of shell plates S Thickness 5/64 Range of tensile strength 28-32 Are the shell plates welded or flanged ends
 Descrip. of riveting: cir. seams 2 lap long. seams 2 butt Diameter of rivet holes in long. seams 3/32 Pitch of rivets 6 7/8
 Lap of plates or width of butt straps 14 3/8 Per centages of strength of longitudinal joint rivets 89.6 Working pressure of shell by rules 194 Size of manhole in shell 16 x 12 Size of compensating ring in shells No. and Description of Furnaces in each boiler 2 Morrison Material S Outside diameter 3' 0 1/2" Length of plain part top Thickness of plates bottom 2 3/4 1 6/16
 Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 198 lb Combustion chamber plates: Material S Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 3/4 Pitch of stays to ditto: Sides 4 1/2 x 4 1/2 Back 4 1/2 x 4 1/2
 Top 4 1/2 x 4 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 210 Material of stays S Diameter at smallest part 1.35 Area supported by each stay 58" Working pressure by rules 198 End plates in steam space: Material S Thickness 1 1/8"
 Pitch of stays 4 1/2 x 13 1/2 How are stays secured d nuts Working pressure by rules 194 Material of stays S Diameter at smallest part 2.53"
 Area supported by each stay 23 Working pressure by rules 229" Material of Front plates at bottom S Thickness 1 1/4 Material of Lower back plate S Thickness 1 5/16 Greatest pitch of stays 13 3/4 Working pressure of plate by rules 246 Diameter of tubes 3 1/2"
 Pitch of tubes 4 3/8 x 4 3/8 Material of tube plates S Thickness: Front 3/4 Back 3/4 Mean pitch of stays 8 3/4 Pitch across wide water spaces 13 3/4" Working pressures by rules 189 lb Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 3/4 x 12 Length as per rule 254 Distance apart 4 1/2 Number and pitch of Stays in each 20 7/8
 Working pressure by rules 202 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 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 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel ---
 Total No. of visits
Please see report on machinery.

Is the approved plan of main boiler forwarded herewith

" " " donkey " "



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W1623-0314

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

Materials & workmanship good. Boiler built & fitted onboard. Examined under steam & found satisfactory.
J. G. Findlay.

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	£	:	:	17 MAY 1906
Donkey Boiler Fee ...	£	2	0	When received.
Travelling Expenses (if any) £	:	:	:	21 MAY 1906

J. G. Findlay

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

Committee's Minute **FRI. 25 MAY 1906**

Assigned *see minute on attached report*



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