

No. in Survey held at Glasgow. Received at London Office TUES. NOV 13 1906
 Reg. Book. Glasgow. Date, first Survey 28th Feb Last Survey 30th Oct 1906
 on the S.S. "BLOEMFONTEIN." (Number of Visits)
 Master Built at By whom built A Mc-Millan & Son When built 1906.
 Engines made at By whom made when made
 Boilers made at Glasgow By whom made Dunsmuir & Jackson Ltd when made 1906
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY~~

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel *Glydebridge & D. Colville.*
 (Letter for record *15*) Total Heating Surface of Boilers *1555 sq. ft.* Is forced draft fitted *no* No. and Description of
 Boilers *One single ended.* Working Pressure *180* Tested by hydraulic pressure to *360* Date of test *16/10/06*
 No. of Certificate *8285* Can each boiler be worked separately ☒ Area of fire grate in each boiler *49.8* No. and Description of
 safety valves to each boiler *2 Patent spring* Area of each valve *4.91* Pressure to which they are adjusted *185 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 ☒ Mean dia. of boilers *13.0"* Length *10.6"*
 Material of shell plates *steel* Thickness *1 3/32"* Range of tensile strength *28 to 32* Are the shell plates welded or flanged *no.*
 Descrip. of riveting: cir. seams *double* long. seams *treble* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *8"*
~~Gap of plates or~~ width of butt straps *16 3/4"* Per centages of strength of longitudinal joint rivets *83.4* Working pressure of shell by
 rules *180 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *McNeils'* plate *86.9* No. and Description of Furnaces in each
 boiler *3 Deighton* Material *steel* Outside diameter *3.6"* Length of plain part *top } ✓* Thickness of plates *or own } 1 1/32"*
 Description of longitudinal joint *welded* No. of strengthening rings ☒ Working pressure of furnace by the rules *194* Combustion chamber
 plates: Material *steel* Thickness: Sides *21/32"* Back *21/32"* Top *21/32"* Bottom *3/4"* Pitch of stays to ditto: Sides *9 x 8 1/2"* Back *9 x 8 1/2"*
 Top *9 x 8 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *193 lbs* Material of stays *steel* *area* at
 smallest part *1.76* Area supported by each stay *77.6* Working pressure by rules *181* End plates in steam space: Material *steel* Thickness *1 3/16"*
 Pitch of stays *18 x 18 5/8"* How are stays secured *nuts* Working pressure by rules *188* Material of stays *steel* *area* at smallest part *6.33*
 Area supported by each stay *336* Working pressure by rules *188* Material of Front plates at bottom *steel* Thickness *13/16"* Material of
 Lower back plate *steel* Thickness *13/16"* Greatest pitch of stays *14 1/4 x 8 1/2"* Working pressure of plate by rules *180* Diameter of tubes *3 1/4"*
 Pitch of tubes *4 3/8 x 4 1/2"* Material of tube plates *steel* Thickness: Front *1"* Back *13/16"* Mean pitch of stays *11"* Pitch across wide
 water spaces *14 1/8"* Working pressures by rules *180 lbs* Girders to Chamber tops: Material *steel* Depth and thickness of
 girder at centre *8 x 2 - 7/8"* Length as per rule *28 1/2"* Distance apart *8 5/8"* Number and pitch of Stays in each *2-9"*
 Working pressure by rules *231 lbs* 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
	When made	Where fixed
	No. of Certificate	Fire grate area
	Description of safety valves	Working pressure
	Pressure to which they are adjusted	If fitted with easing gear
	If steam from main boilers can	
	Length	Material of shell plates
	Thickness	Range of tensile
	Dia. of rivet holes	Whether punched or drilled
	Pitch of rivets	
	Working pressure of shell by rules	Thickness of shell crown plates
	Dia. of stays	Diameter of furnace Top
	Bottom	Length of furnace
	Working pressure of furnace by rules	Thickness of furnace crown
	Stayed by	Diameter of uptake
	Thickness of uptake plates	

The foregoing is a correct description,
James Fleck Limited, Manufacturer.

Dates of Survey while building	During progress of work in shops - - }		Total No. of visits
	During erection on board vessel - - }		
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See accompanying report

Is the approved plan of main boiler forwarded herewith. ✓

33 33 33 ~~donkey~~ 33 33 33 ~~yes~~

W673-0245

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

See report on the machinery attached

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	£	:	:	19
Donkey Boiler Fee ..	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	19

Committee's Minute

Assigned

Glasgow 12 NOV 1906

See accompanying reports.

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



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Foundation