

Description of Ship		No. in Survey held at	Port of	Date, first Survey	Last Survey	Received at London Office
Length	on the	Dumbarton	Glasgow	24 th Nov	13 th Feb	1906
Width	Four main Boilers for the Austrian Lloyd's S. N. Co. No 97 1/2					
Depth	For shipment in separate parts.					
Number of Visits						
By whom built	Built at					
When built						
Rivets	Engines made at					
Plates						
Boilers made at	Dumbarton					
By whom made						
When made						
Boilers made at	Dumbarton					
By whom made						
When made						
Registered Horse Power						
Owners						
Port belonging to						

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Clyde Bridge Steel Co. Ltd.*

Letter for record *r*) Total Heating Surface of Boilers *9624* Is forced draft fitted ☒ No. and Description of
Boilers *Four Single Ended* Working Pressure *200 lbs* Tested by hydraulic pressure to *✓* Date of test *✓*
No. of Certificate *✓* Can each boiler be worked separately ☒ Area of fire grate in each boiler *60 1/2* 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 *15' 3 1/4"* Length *11' 3"*
Material of shell plates *Steel* Thickness *1 3/8"* Range of tensile strength *29432* tons Are the shell plates welded or flanged *No.*
Descrip. of riveting: cir. seams *Double riv. long. seams Double strap* Diameter of rivet holes in long. seams *1 3/8"* Pitch of rivets *8 3/4"*
not riveted
~~Gap of plates or~~ width of butt straps *20 5/8" x 1 1/8" x 1 1/4"* Per centages of strength of longitudinal joint *91.75* Working pressure of shell by
rules *207 lbs* Size of manhole in shell *16 x 12* Size of compensating ring *1 3/8" McNeil* No. and Description of Furnaces in each
boiler *3 Deighton* Material *Steel* Outside diameter *4' 0 1/2"* Length of plain part *top* Thickness of plates *crown*
bottom *5/8"*
Description of longitudinal joint *Welded* No. of strengthening rings *✓* Working pressure of furnace by the rules *208 lbs* Combustion chamber
plates: Material *Steel* Thickness: Sides *21/32* Back *5/8"* Top *21/32* Bottom *21/32* Pitch of stays to ditto: Sides *9' x 8"* Back *8' x 8"*
Top *8 5/8' x 8 1/4'* stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *200 lbs* Material of stays *Low Moor* Section *max.*
at smallest part *2' 0 3/8" Area supported by each stay 64" x 42"* Working pressure by rules *238* End plates in steam space: Material *Steel* Thickness *1 1/2"*
Pitch of stays *16" x 16"* How arc stays secured *Double nuts* Working pressure by rules *200* Material of stays *Steel* Section *Diameter*
small washers. at smallest part *5-56*
Area supported by each stay *16' x 16'* Working pressure by rules *217* Material of Front plates at bottom *Steel* Thickness *15/16* Material of
Lower back plate *Steel* Thickness *15/16* Greatest pitch of stays *13 1/2"* Working pressure of plate by rules *200 lbs* Diameter of tubes *2 1/2"*
Pitch of tubes *3 3/4' x 3 23/32'* Material of tube plates *Steel* Thickness: Front *15/16* Back *3/4* Mean pitch of stays *7' 15/32"* Pitch across wide
water spaces *13 1/2"* Working pressures by rules *200 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of
girder at centre *9' x 1 3/4"* Length as per rule *30 3/4* Distance apart *8 1/4' max.* Number and pitch of Stays in each *Two at 8 5/8'*
Working pressure by rules *250 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	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	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.

9 No. 1
Shimmin
Denny & Co. Manufacturers 5.

Dates of Survey while building	During progress of work in shops - -		During erection on board vessel - - -		Total No. of visits
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1974					

1905: Nov. 24. 28. Dec 5. 20. 25.

1906. Jan. 9. Feb. 6. 1906

Is the approved plan of main boiler forwarded herewith: Yes

55 55 55 *donkey* 55 55

W721-0155

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

The separate parts of these four boilers have been made & fitted together in the shops, the combustion chambers alone being riveted. All holes have been bored, all main stays & stay tubes made of the required lengths & screwed. The screwed stays are supplied, two stays in each length. Plain tubes, rivets & all parts excepting mounting are supplied.

Each boiler has been inspected during construction & with the parts fitted & bolted together before being taken apart for shipment to Trieste.

The workmanship as far as completed is good.

The reconstruction & riveting of the boilers should be carried out under special survey at Trieste & the boilers tested by hydraulic pressure after completion.

It is understood that arrangements have been made for all fees to be paid at Trieste as in previous similar cases.

JK

Rpt. 5.

No. in Reg. Book.

Master

Engines made

Boilers made

Registered

MULTIT

(Letter for

Boilers

No. of Cert

safety valves

Are they fitted

Smallest dis

Material of

Descrip. of

Lap of plat

rules 18

boiler 2

Description

plates: Mat

Top 7.8

smallest pa

Pitch of stay

Area support

Lower back

Pitch of tube

water spaces

girder at cen

Working pres

separately

holes

If stiffened w

Working pres

VERTICAL

Made at

Working pres

No. of safety

enter the donk

strength

Lap of plating

Radius of do.

Thickness of

plates

The

Dates

of Survey

while

building

Tota

The amount of Entry Fee...
Special ... £ 16 : -
Donkey Boiler Fee ... £
Travelling Expenses (if any) £

When applied for,

5 MAR 1906

When received,

22.12.06

Arthur L. Jones

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

Committee's Minute

Assigned

Glasgow 5-MAR 1906

Deferred for completion



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