

No. 42369

Date of writing Report <u>11. 12. 1922</u>		When handed in at Local Office <u>11. 12. 1922</u>		Port of <u>Glasgow</u>		Received at London Office <u>WED. DEC. 13 1922</u>	
No. in	Survey held at	Date, First Survey	<u>11. 10. 1922</u>	Last Survey	<u>7. 12. 1922</u>		
Reg. Book.				(Number of Visits	<u>12</u>)		
* on the	<u>T.S.S. "Inveritai"</u>					Gross	
						Tons	Net
Master	Built at <u>Glasgow</u>	By whom built	<u>Roanlie Construction Co. Ltd.</u>	When built	<u>1923</u>		
Engines made at	<u>Glasgow</u>	By whom made	<u>McKIL & Bonetier Co. 1081/2</u>	When made	<u>1922</u>		
Boilers made at	<u>Glasgow</u>	By whom made	<u>Robt & Duncan Ltd. 1672-3</u>	When made	<u>1922</u>		
Registered Horse Power		Owners	<u>Eastbourne Borough Council</u>	Port belonging to	<u>Wellington</u>		

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Colwell, Sons & Co*

Letter for record *S*) Total Heating Surface of Boilers *2200* Is forced draft fitted *Yes* No. and Description of
boilers *2 Single Ended* Working Pressure *180* Tested by hydraulic pressure to *320* Date of test *4.12.22*

No. of Certificate *1614* Can each boiler be worked separately _____ Area of fire grate in each boiler *30* No. and Description of
safety valves to each boiler *2 Spring Loaded* Area of each valve *4.43* 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* *23"* Mean dia. of boilers *10'-1"* Length *11'-0"*

Material of shell plates *S* Thickness *7/8"* Range of tensile strength *28-32* Are the shell plates welded or flanged *No*

Description of riveting: cir. seams *DR* long. seams *TR & DBS* Diameter of rivet holes in long. seams *1"* Pitch of rivets *6 3/8"*

Width of butt straps *15 3/4"* Per centages of strength of longitudinal joint rivets *86 7/9* plate *84 3/10* Working pressure of shell by
rules *188* Size of manhole in shell *16" x 20"* Size of compensating ring *6 1/4" x 1" Ring*

No. and Description of Furnaces in each
boiler *2 Corrugated* Material *S* Outside diameter *39 1/4"* Length of plain part *top* Thickness of plates *bottom* *15 3/32"*

Description of longitudinal joint *weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *181* Combustion chamber
plates: Material *S* Thickness: Sides *2 1/32* Back *2 1/32* Top *2 1/32* Bottom *2 1/32* Pitch of stays to ditto: Sides *9 1/4" x 8 1/2"* Back *8 1/4" x 9 1/2"*

Top *8 1/4" x 9 1/4"* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *189* Material of stays *S* Area at
smallest part *43236* Area supported by each stay *78* Working pressure by rules *196* End plates in steam space: Material *S* Thickness *3 1/32"*

Pitch of stays *14"* How are stays secured *ON-Washers* Working pressure by rules *183* Material of stays *S* Area at smallest part *6' 10"*

Area supported by each stay *340* Working pressure by rules *182* Material of Front plates at bottom *S* Thickness *3 1/32"* Material of
lower back plate *S* Thickness *3 1/32"* Greatest pitch of stays *18"* Working pressure of plate by rules *185* Diameter of tubes *2 1/2"*

Pitch of tubes *35 1/8"* Material of tube plates *S* Thickness: Front *3 1/32"* Back *23 1/32"* Mean pitch of stays *9' 06"* Pitch across wide
water spaces *13 1/2"* Working pressures by rules *200* Girders to Chamber tops: Material *S* Depth and thickness of
order at centre *8 1/4" x 5 1/8" (2)* Length as per rule *2.65 1/8"* Distance apart *8 1/4"* Number and pitch of Stays in each *2 at 9 1/4"*

Working pressure by rules *193* Steam dome: description of joint to shell _____ % of strength of joint _____

Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____

Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

PERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 ate of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 iameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

The foregoing is a correct description.

Ross Duncan Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1922 Oct 11. 20. 23 25 Nov 6. 10. 16. 21. 29 Dec 1. 5. 7	Is the approved plan of boiler forwarded herewith	Yes
	During erection on board vessel - - -		Total No. of visits	12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. These boilers are being shipped to Montreal at which port they will be fitted on board. These Boilers have now been fitted on board in an efficient manner.

Survey Fee £ 18 : 6 : } When applied for, 11-12-1922
Travelling Expenses (if any) £ : : } When received, 13. 12. 22

Committee's Minute

GLASGOW 12 DEC 1922

TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. MAR. * 2 1923

Lloyd's Register
Foundation

008087-008095-0054