

# REPORT ON BOILERS.

No. 42623

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Date of writing Report 19 *10.4.23* When handed in at Local Office *10.4.23* Port of *Glasgow*

No. in Survey held at *Dalmuir* Date, First Survey *16th Sept 1919* Last Survey *4 April 1923*

Reg. Book. *5* "CONTE VERDE" (Number of Visits *100*) Gross *18383* Tons Net *10208*

Master Built at *Dalmuir* By whom built *N. Beardmore & Co* When built *1923*

Engines made at *Dalmuir* By whom made *N. Beardmore & Co* When made *1923*

Boilers made at *Dalmuir* By whom made *N. Beardmore & Co* When made *1923*

Registered Horse Power Owners *Lloyd Sabaudo Societa Anonima Azionaria* Port belonging to *Genoa*

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *N. Beardmore & Co*

(Letter for record *S*) Total Heating Surface of Boilers *(2SE) 6022 sq ft* Is forced draft fitted *Yes* No. and Description of Boilers *Two Single end* Working Pressure *200 lbs* Tested by hydraulic pressure to *350 lbs* Date of test *7/8/22, 5/4/22*

No. of Certificate *16092, 16094* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *72 sq ft* No. and Description of safety valves to each boiler *2 Spring loaded* Area of each valve *9.62 sq in* Pressure to which they are adjusted *205 lbs*

Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Yes*

Smallest distance between boilers or uptakes and bunkers or woodwork *well clear* Mean dia. of boilers *16'3"* Length *11'3"*

Material of shell plates *Steel* Thickness *1 1/8"* Range of tensile strength *30/34 tons* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *lap double* long. seams *butt double* Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *10"*

Lap of plates or width of butt straps *2 1/4"* Per centages of strength of longitudinal joint rivets *89.4* plate *85.0* Working pressure of shell by rules *213 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *37" x 33" x 1 1/8"* No. and Description of Furnaces in each boiler *4 divisions* Material *Steel* Outside diameter *43 1/2"* Length of plain part *top* Thickness of plates *bottom* *9 1/6"*

Description of longitudinal joint *welded* No. of strengthening rings *Yes* Working pressure of furnace by the rules *202 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1/16"* Back *1/16"* Top *1/16"* Bottom *3/4"* Pitch of stays to ditto: Sides *9" x 9"* Back *7 1/8" x 10"*

Top *9" x 9"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *202 lbs* Material of stays *Steel* Area at smallest part *2.03* Area supported by each stay *81 sq in* Working pressure by rules *226 lbs* End plates in steam space: Material *Steel* Thickness *1 1/8"*

Pitch of stays *8" x 17"* How are stays secured *2 nuts* Working pressure by rules *205 lbs* Material of stays *Steel* Area at smallest part *70 sq in*

Area supported by each stay *306 sq in* Working pressure by rules *202 lbs* Material of Front plates at bottom *Steel* Thickness *1/16"* Material of Lower back plate *Steel* Thickness *1/16"* Greatest pitch of stays *15 1/4"* Working pressure of plate by rules *207 lbs* Diameter of tubes *3"*

Pitch of tubes *4 1/8" & 4 1/4"* Material of tube plates *Steel* Thickness: Front *1/16"* Back *7/8"* Mean pitch of stays *10 1/2"* Pitch across wide water spaces *1/4"* Working pressures by rules *205 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8 1/8" x 1 1/2"* Length as per rule *29 7/16"* Distance apart *9"* Number and pitch of Stays in each *27 9"*

Working pressure by rules *200 lbs* Steam dome: description of joint to shell *none* % 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

SUPERHEATER. Type *Robinson's* Date of Approval of Plan *1/3/20* Tested by Hydraulic Pressure to *—*

Date of Test *See certificate* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *Yes*

Diameter of Safety Valve *2"* Pressure to which each is adjusted *210 lbs* Is Easing Gear fitted *Yes*

The foregoing is a correct description,  
FOR WILLIAM BEARDMORE & CO., LIMITED  
Manufacturer.

Dates of Survey } During progress of } work in shops -- }  
while building } During erection on } board vessel -- }  
Is the approved plan of boiler forwarded herewith *Yes* ENGINEERING MANAGER

*See 1st Entry Report attached.* Total No. of visits *100*

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

*These boilers have been built under Survey and in accordance with the Rules and approved plan, they have been satisfactorily fitted on board.*

*See also 1st Entry Report.*

Survey Fee ... .. £ : : When applied for, ..... 19

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

Committee's Minute **GLASGOW 10 APR 1923**

Assigned *See accompanying report.*

*A. Campbell*  
Engineer Surveyor to Lloyd's Register of Shipping.