

Received at London Office

WED MAR 15 1952

Date of writing Report	24. 8. 1921	When handed in at Local Office	24. 8. 1921	Port of	Glasgow	
No. in	Survey held at	Glasgow	Date, First Survey	14th Nov 1920	Last Survey	18th Aug 1921
Reg. Book.	76396	on the	Donkey Boilers for Lugs No 1008.	S.T. Vigor	(Number of Visits	40.
					Tons	Gross
						Net
Master	Built at	Spezia	By whom built	Canheri Navati della Spezia	When built	
Engines made at	Glasgow	By whom made	McKie & Bacht.	When made	1922	
Boilers made at	Glasgow	By whom made	A. Stephen & Sons. Ltd.	Boilers No J.27	When made	1921
Registered Horse Power		Owners		Port belonging to		

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

MULTITUBULAR BOILERS

(Letter for record **S**) Total Heating Surface of Boilers **1202** Is forced draft fitted **No** No. and Description of Boilers **One single ended multitubular** Working Pressure **120** Tested by hydraulic pressure to **240** Date of test **29/4/21**

No. of Certificate **15810** Can each boiler be worked separately **No** Area of fire grate in each boiler **31.6** No. and Description of safety valves to each boiler **No Spring Loaded** Area of each valve **7.06** Pressure to which they are adjusted **125**

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 **11'-2"** Mean dia. of boilers **10'-1 1/8"**

Material of shell plates **S** Thickness **11/16"** Range of tensile strength **28-32** Are the shell plates welded or flanged **No**

Descrip. of riveting: cir. seams **L.D.R** long. seams **D.R. D Shape** Diameter of rivet holes in long. seams **7/8"** Pitch of rivets **4 3/4"**

lap of plates or width of butt straps **9 3/4"** Per centages of strength of longitudinal joint rivets **82** Working pressure of shell by rules **81.5**

Size of manhole in shell **16x12** Size of compensating ring **28x24 x 13/16"** No. and Description of Furnaces in each boiler **Two Corrugated** Material **S** Outside diameter **42 1/4"** Length of plain part **11'-2"** Thickness of plates **25/64"**

Description of longitudinal joint **Weld** No. of strengthening rings **None** Working pressure of furnace by the rules **127** Combustion chamber plates: Material **S** Thickness: Sides **17/32"** Back **17/32"** Top **17/32"** Bottom **17/32"** Pitch of stays to ditto: Sides **9x8"** Back **9x8"**

Top **9x8"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **134** Material of stays **S** Area at smallest part **119** Area supported by each stay **12** Working pressure by rules **132** End plates in steam space: Material **S** Thickness **13/16"**

Pitch of stays **16x15"** How are stays secured **S. Nuts** Working pressure by rules **123** Material of stays **S** Area at smallest part **287**

Area supported by each stay **240** Working pressure by rules **125** Material of Front plates at bottom **S** Thickness **3/16"** Material of Lower back plate **S** Thickness **3/16"** Greatest pitch of stays **13 1/2 x 5"** Working pressure of plate by rules **185** Diameter of tubes **2 1/2"**

Pitch of tubes **33 1/4 x 3 1/16"** Material of tube plates **S** Thickness: Front **13/16"** Back **3/4"** Mean pitch of stays **11 3/16"** Pitch across wide water spaces **13 1/2'** Working pressures by rules **120** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **6 x 1 1/4'** Length as per rule **25 19/32'** Distance apart **8"** Number and pitch of Stays in each **2 @ 9"**

Working pressure by rules **122** 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 **✓**

UPERHEATER. Type **✓** Date of Approval of Plan **✓** Tested by Hydraulic Pressure to **✓**

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

Diameter of Safety Valve **✓** Pressure to which each is adjusted **✓** Is Easing Gear fitted **✓**

VERTICAL DONKEY BOILER—

VERTICAL DONKEY BOILER—		No.	Description	Manufacturers of steel	
Made at	By whom made		When made	Where fixed	Working pressure
Tested by hydraulic pressure to	Date of test	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	
Cap 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	Radius of do.	Stayed by	Diameter of uptake	Thickness of uptake plates	
Thickness of water tubes			<p>FOR ALEXANDER STEPHEN & SONS, LIMITED</p> <p>The foregoing is a correct description,</p>		

FOR
ALEXANDER STEPHEN & SONS, LIMITED.
The foregoing is a correct description,

W. W. Dmool *Manufacturer*

Dates	During progress of work in shops - -	1920 Nov 14 Dec 8-17-21-27 (1921) Jan 12-18-25-28 Feb 7-11-17-21 Mar 3-8-14-22-30 Apr 1-6-7 13-18-20-23-25-29 May 3-5-11-13-20-25-31 Jun 1-3-7-22 July 7 Aug 18
Survey while building	During erection on board vessel - - -	
	Total No. of visits	40.

Is the approved plan of main boiler forwarded herewith

[Signature]

Is the approved plan of main boiler forwarded herewith

donkey

...rded herewith (168)
Lloyd's Register
Foundation

K1141 - 0214

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

This boiler has been built under Special Survey and in accordance with the Rules; the materials and workmanship are sound & good, on completion it was tested to 240 lbs water pressure and found satisfactory in all respects.

This Donkey Boiler has been properly fitted on board and has proved satisfactory under steam.

Alex. Lawrence
Glasgow
24/4/23

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

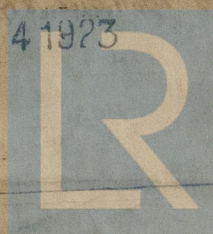
Assigned Deferred

GLASGOW 14 MAR 1922

J. S. Sellar

Engineer Surveyor to Lloyd's Register of Shipping

FRI. MAY. 4 1923



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Lloyd's Register
Foundation