

# REPORT ON BOILERS.

No. 15203.

TUES. 24 SEP 1907

Port of Greenock

Received at London Office

No. in Survey held at Greenock  
Reg. Book.

Date, first Survey 28<sup>th</sup> Dec 1906. Last Survey 12<sup>th</sup> Sept 1907  
(Number of Visits #9)

on the **SCREW STEAMER DALDORCH**

Tons { Gross 4717.91  
Net 3021.21

Master P.M. Pearson. Built at Greenock By whom built Scott's SB ring: 604 lin. When built 1904.  
Engines made at Greenock By whom made Scott's SB ring: 604 lin. when made 1904.  
Boilers made at Greenock By whom made Scott's SB ring: 604 lin. when made 1904.  
Registered Horse Power Owners J. Reid Campbell & W. Hobart Campbell Port belonging to Glasgow

## MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Stewart & Sons

(Letter for record) Total Heating Surface of Boilers 1049 sq. ft. Is forced draft fitted No. No. and Description of

Boilers 1: Cylindrical shell Single end Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 3/4/04

No. of Certificate 841 Can each boiler be worked separately ✓ Area of fire grate in each boiler 33 sq. ft. No. and Description of

safety valves to each boiler 2: Direct Spring loaded Area of each valve 4.9 sq. in. Pressure to which they are adjusted 105 lbs

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 about 9' Mean dia. of boilers 11' 0" Length 10' 6"

Material of shell plates Steel Thickness 1/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap Double long. seams Lap Quadruple Diameter of rivet holes in long. seams 15/16" Pitch of rivets 4 3/32" 2 1/4"

Lap of plates or width of butt straps 6 3/8" Per centages of strength of longitudinal joint rivets 48.5% Working pressure of shell by

rules 108 lbs Size of manhole in shell 16" x 12" Size of compensating ring 36 x 28 x 3/4" flanged No. and Description of Furnaces in each

boiler 2: plain Material Steel Outside diameter 41.06" Length of plain part 84" Thickness of plates crown 19" bottom 32"

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 106 lbs Combustion chamber

plates: Material Steel Thickness: Sides 15/32" Back 15/32" Top 15/32" Bottom 15/16" Pitch of stays to ditto: Sides 3/2" x 3/4" Back 3/2" x 3/8"

Top 3/2" x 3/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 118 lbs Material of stays Iron Diameter at

smallest part 1 1/4" Area supported by each stay 57 sq. in. Working pressure by rules 125 lbs End plates in steam space: Material Steel Thickness 32"

Pitch of stays 15" x 16" How are stays secured Nuts & washers Working pressure by rules 102 lbs Material of stays Steel Diameter at smallest part 1.85"

Area supported by each stay 240 sq. in. Working pressure by rules 113 lbs Material of Front plates at bottom Steel Thickness 1/16" Material of

Lower back plate Steel Thickness 3/32" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 111 lbs Diameter of tubes 3"

Pitch of tubes 4 1/2" x 4 1/8" Material of tube plates Steel Thickness: Front 1/16" Back 1/16" Mean pitch of stays 12.9" Pitch across wide

water spaces 14 1/2" Working pressures by rules 170 lbs 101 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6" x 1 1/2" Length as per rule 29" Distance apart 7 1/2" Number and pitch of Stays in each 2: 3/2"

Working pressure by rules 115 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

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

Lap of plating Per centage of strength of joint Rivets 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

The foregoing is a correct description  
**SCOTT'S STEAM ENGINEERING COMPANY, LIMITED.**  
Manufacturer.  
Assistant Secretary.

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

Is the approved plan of main boiler forwarded herewith  
" " " donkey " " "



If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the ship?

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

*This Boiler has been built under special survey and the workmanship is good.*

*For recommendations, see preceding sheet.*

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

*Wm R. Austin*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Glasgow 23 SEP 1807

Committee's Minute

Assigned *See accompanying reports*



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