

REPORT ON BOILERS.

App. No. 13100.
No. 4470
THUR. 25 OCT 1906

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

No. in Reg. Book. 20 Survey held at Stockton

Date, first Survey July 31

Last Survey 19

Master B. D. Sadler Built at Warrington By whom built Wray & Co

(Number of Visits) 3

Tons 3737-26
2393-03

When built 1906

Engines made at Stockton By whom made Wray & Co Ltd

when made 1906

Registered Horse Power 115 Owners Anglo Algerian Steamship Co Ltd

Port belonging to Stranraer

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel J. Spencer & Sons Ltd

(Letter for record (a)) Total Heating Surface of Boilers 722 Is forced draft fitted

Boilers One Cylindrical Tubular Working Pressure 90 lbs Tested by hydraulic pressure to 180 Date of test 14.9.06

No. of Certificate 3762 Can each boiler be worked separately Area of fire grate in each boiler 32 No. and Description of

safety valves to each boiler Two Spring Area of each valve 1.29 Pressure to which they are adjusted 94

Are they fitted with easing gear 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 10'-0" Length 9'-0"

Material of shell plates Steel Thickness 19/32 Range of tensile strength 28/32 Tons Are the shell plates welded or flanged

Descrip. of riveting: cir. seams S.R. Lap, long. seams Tr. R. Lap. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/16

Lap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint 80-3 Working pressure of shell by

rules 91-5 lbs Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" wide x 13/16" No. and Description of Furnaces in each

boiler 2 plain Material Steel Outside diameter 3'-0" Length of plain part 7'-7" Thickness of plates 17/32

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 92-5 Combustion chamber

plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 5/8 Pitch of stays to ditto: Sides 8 1/2 x 10 Back 9 1/2 x 9

Top 9 x 10 If stays are fitted with nuts or riveted heads Riveted Heads Working pressure by rules 90 lbs Material of stays Iron Area at

smallest part 1.45 Area supported by each stay 88.75 Working pressure by rules 98 End plates in steam space: Material Steel Thickness 13/16

Pitch of stays 17/2 x 17/2 How are stays secured Welded Working pressure by rules 102 Material of stays Iron Area at smallest part 4.3

Area supported by each stay 306.2 Working pressure by rules 105 Material of Front plates at bottom Steel Thickness 13/16 Material of

Lower back plate Steel Thickness 13/16 Greatest pitch of stays 13 x 9 Working pressure of plate by rules 160 Diameter of tubes 3 1/4

Pitch of tubes 1 3/4 x 1 3/8 Material of tube plates Steel Thickness: Front 13/16 Back 11/16 Mean pitch of stays 11-8 Pitch across wide

water spaces 14 Working pressures by rules 112 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6 1/4 x 1 1/4 Length as per rule 2-11/8 Distance apart 9 Number and pitch of Stays in each One 9"

Working pressure by rules 90 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 _____ 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 _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

The foregoing is a correct description, of Donkey Boiler.

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

1906: July 31, Aug 8, 14, 28, 30, Sep 4, 6, 10, 12, 14

Is the approved plan of main boiler forwarded herewith

donkey

Yes.

101.1.10.111

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

101.1.10.111

This boiler has been constructed under Special Survey the materials and workmanship are good & efficient and when tested with hydraulic pressure the boiler was found tight and satisfactory.

This boiler has now been efficiently fitted on board.

James Jones

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 ... £	2	:	2 0
Travelling Expenses (if any) £	:	:	9.10.06

Will be
B
11.4.06
Geo A Milner & A. J. Hudson
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 26 OCT 1906

Assigned



© 2021

Lloyd's Register Foundation