

Appl No. 13120.
No. 4813

THUR. NOV 15 1906

pt. 5.

REPORT ON BOILERS.

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

No. in Survey held at Darlington

Date, first Survey Sept 3

Last Survey 19

Reg. Book. 100 on the Donkey Boiler (No 103) 1st Dirphys

(Number of Visits)

Gross 2794.79
Net 1799.91
Tons

Master Cap Pappacostas Built at Warrington By whom built W. Kay & Co.

When built 1906

Engines made at West Hartlepool By whom made Central Marine Engine Works.

when made 1906

Boilers made at Darlington By whom made Blake Boiler Wagon & Eng. Co. Ltd

when made 1906

Registered Horse Power Owners Nav à Vapeur Panhellénique

Port belonging to Sirius

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

Letter for record (S) Total Heating Surface of Boilers 1780 sq ft Is forced draft fitted No. and Description of

Boilers One Cyl. Multi single ended Working Pressure 80 lb Tested by hydraulic pressure to 160 lb Date of test 20-10-06

No. of Certificate 3790 Can each boiler be worked separately Area of fire grate in each boiler 30 sq ft No. and Description of

safety valves to each boiler Area of each valve 8.29" Pressure to which they are adjusted 85 lb

Are they fitted with easing gear In 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 Int Mean dia. of boilers 10'-0" Length 10'-0"

Material of shell plates Steel Thickness 3/2" Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams SR Lap long. seams J.R. Lap Diameter of rivet holes in long. seams 15" Pitch of rivets 3 1/2"

Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 84.6 Working pressure of shell by plate 73.2

rules 92 lb Size of manhole in shell 12" x 16" Size of compensating ring 7" x 5/8" No. and Description of Furnaces in each boiler 2 plain

Material Steel Outside diameter 3'-0" Length of plain part top 6'-2" Thickness of plates crown 9" bottom 16"

Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 90 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8"

Pitch of stays to ditto: Sides 9 1/2" x 12" Back 9 1/2" x 10" Top 10" x 13" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 93

Material of stays Steel Diameter at smallest part 1 5/8" Area supported by each stay 160" Working pressure by rules 107 End plates in steam space: Material Steel Thickness 2 1/2" x 3 1/2"

Pitch of stays 1'-8" x 1'-8" How are stays secured Draws Working pressure by rules 93 Material of stays Steel Diameter at smallest part 2 1/2"

Area supported by each stay 390" Working pressure by rules 110 Material of Front plates at bottom Steel Thickness 3/2" Material of

Lower back plate Steel Thickness 2 1/2" Greatest pitch of stays 12 1/2" x 9 1/2" Working pressure of plate by rules 119 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 2 1/2" Back 5/8" Mean pitch of stays 11 1/4" Pitch across wide

water spaces 14 1/4" Working pressures by rules 81 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7" x 1 3/8"

Length as per rule 2'-6" Distance apart 13" Number and pitch of Stays in each 2 10" Working pressure by rules 85

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,
FOR BLAKE BOILER, WAGON &
ENGINEERING CO. LIMITED.

Dates of Survey while building
During progress of work in shops -- 1406
During erection on board vessel --
Total No. of visits 1406, 1414, 1419, 1424, 1425, 1429, Oct 11, 15, 17, 19, 20

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " yes

002970-002977-0083

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

This boiler has been built under Special Survey
The materials and workmanship are good and efficient.
After satisfactorily withstanding the hydraulic test it has
been despatched for fitting on board.

This boiler has now been efficiently fitted on board

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 ...	£	:	:	18
Donkey Boiler Fee ...	£	2	2	When received.
Travelling Expenses (if any) £	:	:	:	

Committee's Minute

Assigned

FRL NOV 16 1906

R.D. Shilston James Jones
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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Foundation