

REPORT ON BOILERS.

No. 4346

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

14th DEC 1905

No. in Survey held at *Stockton*
Reg. Book. *Donkey Boiler (No 3541) for D.S. Teespool*
Master *Hickton* Built at *Hickton* By whom built *Rapner & Son* When built *1905*
Engines made at *Hickton* By whom made *Blain & Co Ltd* when made *1905*
Boilers made at *Stockton* By whom made *Riley Bros (Boilermakers) Ltd* when made *1905*
Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers
Working Pressure Tested by hydraulic pressure to Date of test
No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to each boiler
Area of each valve Pressure to which they are adjusted
Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length
Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged
Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets
Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets Working pressure of shell by rules
Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each boiler
Material Outside diameter Length of plain part top Thickness of plates crown bottom
Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber
plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back
Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at smallest part
Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness
Pitch of stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part
Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of Lower back plate
Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide water spaces
Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder at centre
Length as per rule Distance apart Number and pitch of Stays in each
Working pressure by rules 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. *One* Description *Meredith's Pat.* Manufacturers of steel *J. Spencer & Sons Ltd*

Made at *Stockton* By whom made *Riley Bros Ltd* When made *2-11-05* Where fixed *Waste Hole*
Working pressure *20* tested by hydraulic pressure to *240* No. of Certificate *3546* Fire grate area *309* Description of safety valves *Spring*
No. of safety valves *2* Area of each *7.07* Pressure to which they are adjusted *120 lb* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No* Dia. of donkey boiler *7'-6"* Length *15'-0"* Material of shell plates *Steel* Thickness *19"* Range of tensile strength *27/32* Descrip. of riveting long. seams *Int. riv. lap* Dia. of rivet holes *15/16* Whether punched or drilled *punched* Pitch of rivets *3 3/4"*
Lap of plating *6 1/2"* Per centage of strength of joint Rivets *79* Working pressure of shell by rules *122 lb* Thickness of shell crown plates *19"*
Radius of do. *3'-9"* No. of Stays to do. *✓* Dia. of stays *✓* Diameter of furnace Top *5'-0"* Bottom *6'-4"* Length of furnace *2'-6 1/2"*
Thickness of furnace plates *3/4"* Description of joint *S.R. Lap.* Working pressure of furnace by rules *128 lb* Thickness of furnace crown plates *23/32"* Stayed by *drilled 3-0" rad* Diameter of tubes *3"* Thickness of tube plates *F. 23/32"* Thickness of stay tubes *5/16"*

The foregoing is a correct description,

Manufacturer.

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

1905 Aug 24. Sept. 20. Oct. 4. 12. 18. 25. 24. 30. Nov. 2.
Nov. 24. Dec. 1. 5. 8. 12. 14.

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

© 2021

Lloyd's Register
Foundation
W528-0349.1

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.
 After being secured in place & tested under steam it
 was found satisfactory.

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	£	:	:	5. 12 1905
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	7. 12 1905

R.D. Shilston & Geo A. Milner
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

AWD

FRI. 29 DEC 1905

Committee's Minute

Assigned



© 2021

Lloyd's Register
 Foundation