5.

REPORT ON BOILERS.

No. 50819

Port of Newcastle-on-Tyne

Received at London Office FRI. 11 MAY 1906 19

in Survey held at South Shields Date, first Survey Feb 22 '06 Last Survey 2. 5. 19 06

Book. (Number of Visits 4)

on the S.S. TREMAYNE Tons { Gross 3881 Net 2507

J. Symons Built at South Shields By whom built J. Readhead & Son When built 1906

es made at South Shields By whom made J. Readhead & Son when made 1906

s made at do By whom made do when made 1906

tered Horse Power 330·96 Owners E. Hain & Sons Port belonging to St. Ives

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LTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel J. Spencer & Son

r for record 2) **Total Heating Surface of Boilers** 670·5 □ft Is forced draft fitted no **No. and Description of**

rs One Single ended **Working Pressure** 80 Tested by hydraulic pressure to 160 Date of test 31·3·06

f Certificate 7202 Can each boiler be worked separately — **Area of fire grate in each boiler** 24·6 No. and Description of

valves to each boiler Two Spring Area of each valve 7·07 Pressure to which they are adjusted 80 lb

hey fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

lest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers 9'-6" Length 9'-6"

rial of shell plates Steel Thickness 9/16 Range of tensile strength 27/32 Are the shell plates welded or flanged no

rip. of riveting: cir. seams Lap D.R long. seams Lap D.R Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3"

of plates ~~or width of butt straps~~ 4 3/4 Per centages of strength of longitudinal joint rivets 69·5 plate 68·75 Working pressure of shell by

82·5 Size of manhole in shell 16 X 12 Size of compensating ring 6" X 9/16 **No. and Description of Furnaces in each**

r 2 Plain Material Steel Outside diameter 36" Length of plain part top 6-8 bottom 6-8 Thickness of plates crown 1/2 bottom 5/8

ription of longitudinal joint Lap S.R No. of strengthening rings 1/2 T Working pressure of furnace by the rules 108 Combustion chamber

s: Material Steel Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 5/8 Pitch of stays to ditto: Sides 9X9 Back 9 1/4 X 10

Round If stays are fitted with nuts ~~or riveted heads~~ nuts Working pressure by rules 88 lb Material of stays Iron ~~Diameter~~ area at

lest part 1·46 1·99 Area supported by each stay 9X9 9 1/4 X 10 Working pressure by rules 85 116 End plates in steam space: Material Steel Thickness 13/16

of stays 19 X 17 How are stays secured Nut & W Working pressure by rules 97 Material of stays Steel ~~Diameter~~ area at smallest part 2·07

supported by each stay 19 X 17 Working pressure by rules 88·5 Material of Front plates at bottom Steel Thickness 13/16 Material of

r back plate Steel Thickness 13/16 Greatest pitch of stays 10 X 10 Working pressure of plate by rules 160 lb Diameter of tubes 3 1/4

of tubes 4 3/8 Material of tube plates Steel Thickness: Front 13/16 Back 11/16 Mean pitch of stays 5 3/4 X 8 3/4 Pitch across wide

r spaces 16" Working pressures by rules 88 lb Girders to Chamber tops: Material Depth and thickness of

er at centre Length as per rule Distance apart Number and pitch of Stays in each

king pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

rately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

s Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

tiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

rking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

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ERTICAL DONKEY BOILER— No. Description Manufacturers of steel

de at By whom made When made Where fixed

rking pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

r the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

ngth Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates

lius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

ckness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

es Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

John Readhead & Sons Manufacturer.

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ates Survey while lding { During progress of work in shops - - } 1906. Feb 22. Mch 31. Apl 9. May 2.
During erection on board vessel - - -

Total No. of visits 4. Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " " Yes

W688-0178

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

This Boiler has been built under Special Survey & has been fitted on above vessel

(*The Surveyors are requested not to write on or below the space for Committee's Minute.*) *Certificate (if required) to be sent to*

The amount of Entry Fee...	£	:	:
Special	£	:	:
Donkey Boiler Fee ...	£	2 :	0 :
Travelling Expenses (if any))	£	:	:

When applied for, 10 MAY 1906 19

When received, 19

TUES. 15 MAY 1906

Committee's Minute

Assigned See Minute on attached report

G. A. Dryden Joyce

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

W. Lane.