

Rpt. 5.

# REPORT ON BOILERS.

No. 53,443.

Goolle & Co 95-7  
Wallsend Boiler 190.13  
Lidgwood Engine 169.

Port of Newcastle

Received at London Office

19 SEP 1907

No. in Survey held at Newcastle  
Reg. Book.

Date first Survey 7 June

Last Survey Aug 19 1907

(Number of Visits 15)

Tons { Gross 218.46  
Net 99.37

Kind of ship on the

Steam Trawler "Phoebe"

Master

Built at Goolle

By whom built Goolle S.B. 67d

When built 1907

Engines made at Glasgow

By whom made Lidgwood & Co

when made 1907

Boilers made at Wallsend

By whom made Wallsend Slipway & Eng'g Co

when made 1907

Registered Horse Power 75.33

Owners G. Cohen

Port belonging to Greenwood

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

(Letter for record R) Total Heating Surface of Boilers 1258 sq ft Is forced draft fitted no No. and Description of Boilers 1 S.E. Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 18.7.07

No. of Certificate 7530 Can each boiler be worked separately  Area of fire grate in each boiler 42 3/4 sq ft No. and Description of safety valves to each boiler two direct-spring Area of each valve 4.9 sq in Pressure to which they are adjusted 180 lb

Are they fitted with easing gear yes 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 9 in Mean dia. of boilers 13 ft Length 10 ft

Material of shell plates S Thickness 1 1/4 Range of tensile strength 29.33 Are the shell plates welded or flanged ends

Descrip. of riveting: cir. seams 2 + lap long. seams 2 butt Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 7 1/2

Lap of plates or width of butt straps 15 1/4 Per centages of strength of longitudinal joint plate 86.5 Working pressure of shell by rules 181 Size of manhole in shell 16 x 12 Size of compensating ring McNeil's No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 39 7/8 Length of plain part 6.5 Thickness of plates 3/4

Description of longitudinal joint weld No. of strengthening rings 2 Working pressure of furnace by the rules 189 Combustion chamber plates: Material S Thickness: Sides 3/32 Back 3/32 Top 3/32 Bottom 7/8 Pitch of stays to ditto: Sides 9 x 8 3/4 Back 9 7/8 x 8 1/2

Top 9 x 8 3/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays S Diameter at smallest part 1.6 Area supported by each stay 82.44 Working pressure by rules 186 End plates in steam space: Material S Thickness 1 3/16

Pitch of stays 14 3/8 x 18 1/4 How are stays secured 2 nuts Working pressure by rules 181 Material of stays S Diameter at smallest part 3.28

Area supported by each stay 349.4 Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 Material of Lower back plate S Thickness 7/8 Greatest pitch of stays 13 3/4 Working pressure of plate by rules 185 Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 9 1/2 Pitch across wide water spaces 14 Working pressures by rules 225 lb Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 1/2 Length as per rule 27 3/4 Distance apart 9 Number and pitch of Stays in each 2 of 8 3/4

Working pressure by rules 189 Superheater or Steam chest; how connected to boiler  Can the superheater be shut off and the boiler worked separately  Diameter Length Thickness of shell plate 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 none fitted 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 Plates Working pressure of shell by rules Thickness of shell crown plates

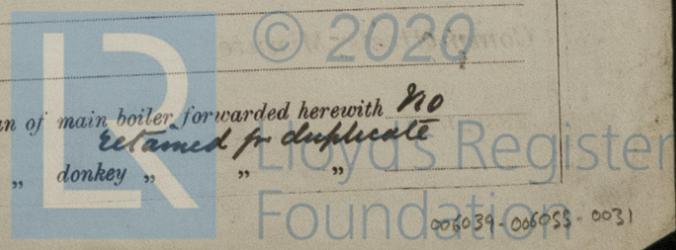
Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown plates

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,  
Robt. Trail Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1907 June 7, July 28, 9, 10, 11, 12, 13, 16, 18  
During erection on board vessel - - - Aug 1, 2, 13, 15, 19  
Total No. of visits 15

Is the approved plan of main boiler forwarded herewith no  
" " " donkey " " " " retained for duplicate



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

Lm. 12, 05 Copyable Ink.

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

This boiler has been constructed under Special Survey. Materials and workmanship good and efficient & when tested by hydraulic was found tight.

The boiler fitted on board, tested under steam and found satisfactory.  
Leonard Shallerross.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	When applied for
Special ... ..	£	19
Donkey Boiler Fee ...	£	When received.
Travelling Expenses (if any) £		19

*Please see Report on Machinery*

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

Committee's Minute FRI. 20 SEP 1907

Assigned *ca* Minute on *Gls. Rpt. No 25671*



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