

Goulds B Co 95.43
 Washend Boilers 190.13
 Ledgerwood Engines 269.

REPORT ON BOILERS.

No. 53.443

1 HUR. 19 SEP 1907

Received at London Office
 THUR. 19 SEP 1907
 Port of Newcastle
 Date first Survey 7 June Last Survey Aug 1907
 No. in Survey held at Newcastle
 Reg. Book. 13
 (Number of Visits 15)
 Gross Tons 28.46
 Net Tons 99.37
 Name of Ship on the Steam Trawler "Phoebe"
 Master ✓ Built at Goole By whom built Goole S.B. Co. Ltd. When built 1907
 Engines made at Glasgow By whom made Lidgerwood & Co. when made 1904
 Boilers made at Wallsend By whom made Wallsend Slipway & Eng. Co. Ltd. when made 1904
 Registered Horse Power 75.33 Owners G. Cohen. Port belonging to Blenwood

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

Boilers *12* Working Pressure *150* lbs. No. and Description of
No. of Certificate *7530* Can each boiler be worked separately ☒ Area of fire grate in each boiler *42 1/4* sq. ft.
safety valves to each boiler *two direct Spring* Area of each valve *4.9* sq. in. Pressure to which they are adjusted *186* lbs.

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ☒

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 13' ft. Length 10 ft.

Smallest distance between boilers or uptakes and bunkers or woodwork 7

Material of shell plates *S* Thickness *1 1/4* Range of tensile strength *29. 33* Are the shell plates welded or flanged *ends*

Material of shell plates D Thickness 1/2 Range of tensile strength 27,000
 Descrip. of riveting: cir. seams a. + lap long. seams a butt Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 4 1/2
 Rivets 86.5

Descrip. of riveting: cir. seams A Lap long. seams A
 rivets 86.5
 Lap of plates or width of butt straps 15 7/8 Per centages of strength of longitudinal joint
 plate 85.8 Working pressure of shell by

Lap of plates or width of butt straps 10-8 Per centages of strength 80 plate 80
 rules 181 Size of manhole in shell 16" x 12" Size of compensating ring 7 1/2 No. and Description of Furnaces in each
6 5 3

rules 187. Size of manhole in sheet 15 x 12 Size of top crown 6.5" Thickness of plates 3/4" boiler 3 plain Material S Outside diameter 39 5/8 Length of plain part 6' 0" bottom 189 Combustion chamber

boiler 3 plain Material 2 Outside diameter 2.75 bottom 2
Description of longitudinal joint Weld No. of strengthening rings 2 Working pressure of furnace by the rules 189 Combustion chamber 8.8 3/4 9.5

Description of longitudinal joint ~~176~~ 176. of ~~3~~ 3 longitudinal plates: Material S. Thickness: Sides $\frac{21}{32}$ Back $\frac{21}{32}$ Top $\frac{21}{32}$ Bottom $\frac{7}{8}$ Pitch of stays to ditto: Sides $9 \times 8 \frac{1}{4}$ Back $9 \frac{1}{8} \times 8$ Diameter of

plates: Material St. Thickness .52 Sides .52 Back .52 Top .52

Top 9 x 8 1/2 If stays are fitted with nuts or riveted heads nut. Working pressure by rules 181. Material of stays St. Diameter 1 3/4

Top 9 x 8 1/4 stays are fitted with nuts or flange heads
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 1/4

smallest part 1.6 Area supported by each stay 2.4 Working pressure by rules 181 Material of stays 8 Diameter at smallest part 3.2

Pitch of stays 40×104 How are stays secured \dots
Area supported by each stay 349.4 . Working pressure by rules 182 Material of Front plates at bottom S . Thickness $1''$ Material \dots
 185 Diameter of tubes 39

Lower back plate S. Thickness $\frac{7}{8}$ Greatest pitch of stays $13\frac{3}{4}$. Working pressure of plate by rules 185 Diameter of tubes 32

Pitch of tubes $4\frac{3}{4} \times 4\frac{3}{4}$ Material of tube plates S Thickness: Front 1" Back $\frac{3}{4}$ " Mean pitch of stays $9\frac{1}{2}$ " Pitch across width of tubes 10" Depth and thickness of tube plates 8"

Pitch of tubes 4 7/8 x 4 1/4 Material of tube plates 7/8
water spaces 14" Working pressures by rules 225 lb Girders to Chamber tops: Material 8 Depth and thickness 3 x 8 3/4

girder at centre $4\frac{1}{2}$ Length as per rule $24\frac{3}{4}$ Distance apart $9''$ Number and pitch of Stays in each 2 of $8\frac{1}{4}$

Working pressure by rules 180%. Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler work

separately	Diameter	Length	Thickness of shell plate	Material	Description of longitudinal joint	Diam. of rivets

<i>separately</i>	<i>Diameter</i>	<i>Length</i>	<i>Material of flue plates</i>	<i>Thickness</i>
<i>holes</i>	<i>Pitch of rivets</i>	<i>Working pressure of shell by rule</i>	<i>Diameter of flue</i>	<i>How stayed</i>

notes _____

If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____

Are they fitted with easing gear _____

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 _____

VERTICAL DONKEY BOILER— No. _____ Description *was put in* _____
 Made at _____ By whom made _____ When made _____ Where fixed _____ Working pressure _____

Made at _____ By whom made _____ When made _____ Where made _____
 tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grade area _____
 No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____
 enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of ten _____

enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____ Material of donkey boiler _____
strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____
 Lan. of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____

Lap of plating Per centage of strength of joint Plates Working pressure of steam
 Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace by rules Thickness of furnace cr
Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace cr

Thickness of furnace plates _____ Description of joint _____ Working pressure of _____
 plates _____ Radius of do. _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____

plates _____ Radius of do. _____ Stayed by _____ Diameter of _____
Thickness of water tubes _____ The foregoing is a correct description,

Thickness of water tubes

1975

Dates of Survey: During progress of work in shops - - 1907 June 4 July 28 9 10 11 12 13 16 18

of Survey while building } During erection on } Aug 1. 13. 19
board vessel - - - }

Is the approved plan of main boiler forwarded herewith *2* No
duplicate

building (board vessel - - -) Is the approved plan of main boiler for use in
Total No. of visits 15 Retained for duplicate
" " " donkey " " "

donkey
Foundat
00603

00803



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 Shalloo.

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 to...
Special ...	£	19
Donkey Boiler Fee ...	£	When received, 19
Travelling Expenses (if any) £		19

Please see Report on Machinery

J. Y. 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 2587



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