

REPORT ON BOILERS.

Hull No. 52851

Hull - 18987

WED. 22 MAY 1907

Port of Newcastle

Received at London Office

No. in Survey held at Newcastle

Date, first Survey

Last Survey

Reg. Book.

(Number of Visits)

Gross 321
Net 13632 uph on the ~~same~~ Trawler, Vinca

Master Built at Goole By whom built Goole. S. B. Co. When built 1907

Engines made at Coathridge By whom made W. V. V. Lidgerwood (No. 263) when made 1907

Boilers made at Wallsend By whom made Wallsend Slipway & Eng. Co. Ltd when made 1904

Registered Horse Power 85 Owners Southern Steam Trawling Co. Ltd Port belonging to Muller's Haven

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

(Letter for record A) Total Heating Surface of Boilers 1430 sq. ft. Is forced draft fitted No. No. and Description of Boilers 1 S. E. Working Pressure 180 lb. Tested by hydraulic pressure to 360 lb. Date of test 21.3.07.

No. of Certificate 7449. Can each boiler be worked separately ~~one~~ Area of fire grate in each boiler 47 1/2 sq. ft. No. and Description of

safety valves to each boiler two direct Spring Area of each valve 5.93 sq. in. Pressure to which they are adjusted 185 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 15" FyZ Mean dia. of boilers 13' 6" Length 10' 6"

Material of shell plates S Thickness 1 1/2" Range of tensile strength 24, 32 Are the shell plates welded or flanged ends

Descrip. of riveting: cir. seams 2 x 1/2" long. seams 4 butt 1 1/2" Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 8"

Lap of plates or width of butt straps 16 5/8" Per centages of strength of longitudinal joint rivets 84.18 Working pressure of shell by rules 181.5 lb. Size of manhole in shell 16" x 12" Size of compensating ring 1 1/2" No. and Description of Furnaces in each boiler 3 plain Material S. Outside diameter 39 5/8" Length of plain part top 6" bottom 5' 9" Thickness of plates crown 3/16" bottom 1/8"

Description of longitudinal joint welded. No. of strengthening rings 2 T 1/2 Working pressure of furnace by the rules 180 Combustion chamber

plates: Material S. Thickness: Sides 7/8" Back 2 1/32" Top 5/8" Bottom 7/8" Pitch of stays to ditto: Sides 8 3/8" x 8 3/8" Back 9 3/4" x 7 3/4"

Top 8 3/8" x 8 3/8" If stays are fitted with nuts or riveted heads auto Working pressure by rules 181 Material of stays S. Diameter at

smallest part 2.03 Area supported by each stay 77 1/2 Working pressure by rules 192 End plates in steam space: Material S Thickness 1 1/2"

Pitch of stays 19 1/2 x 19 1/2 How are stays secured auto Working pressure by rules 184 Material of stays S Diameter at smallest part 4.24

Area supported by each stay 380 1/4 Working pressure by rules 189 Material of Front plates at bottom S Thickness 1" Material of

Lower back plate S. Thickness 7/8" Greatest pitch of stays 13 5/16" Working pressure of plate by rules 190 Diameter of tubes 3 3/4"

Pitch of tubes 5 x 4 5/16 Material of tube plates S. Thickness: Front 1" Back 3/4" Mean pitch of stays 9.98" Pitch across wide

water spaces 14" Working pressures by rules 183 1/2 Girders to Chamber tops: Material S. Depth and thickness of

girder at centre 10 3/4 x 12" Length as per rule 35 1/8" Distance apart 8 3/8" Number and pitch of Stays in each 34.8 3/8"

Working pressure by rules 184 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. 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.

J. Spencer & Sons Ltd. Manufacturer.

Dates of Survey { During progress of work in shops - - - 1907. Mch. 15. 19. 21. 26. Apr. 29. 30. 26. 29. while building { During erection on board vessel - - - Total No. of visits 5.7

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " "

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

Main boiler built under Special Survey. Materials and workmanship good. Tested by hydraulic to 360 lbs & found sound and tight. The boiler fitted on board. Tested under steam and found satisfactory.

Certificate (if required) to be sent to the Committee's Minute.

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

Recharged at Glasgow - Please see Machinery Rpt.

J. H. Cuddey & Leonard Challinors.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. MAY 24 1907

Assigned

See minute on Gls Rpt

No 25172



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