

REPORT ON BOILERS.

Case No. 52851

Hull - 18987

WED. 22 MAY 1907

Port of Newcastle

Received at London Office

No. in Survey held at Newcastle Date, first Survey March Last Survey 29 April 1907
 Reg. Book. 32 lph on the steam Trawler, Vinca (Number of Visits 57)
 Master Goole Built at Goole By whom built Goole. S. B. Co When built 1907
 Engines made at Coatbridge By whom made W. V. V. Ridgwood (No. 263) when made 1907
 Boilers made at Wallsend By whom made Wallsend Slipway & Eng Co Ld when made 1904
 Registered Horse Power 85 Owners Southern Steam Trawling Co Ltd Port belonging to Mullon Haven

Gross 321
 Net 136
 Tons

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

(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 lbs Tested by hydraulic pressure to 360 lbs Date of test 21.3.07.

No. of Certificate 7449. Can each boiler be worked separately only one. Area of fire grate in each boiler 47 3/4 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 lbs.

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" Mean dia. of boilers 13' 6" Length 10' 6"

Material of shell plates S Thickness 1 1/2" Range of tensile strength 29, 32 Are the shell plates welded or flanged ends
 Descrip. of riveting: cir. seams a + lap. long. seams a butt 3/16" 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 lbs. Size of manhole in shell 16" x 12." Size of compensating ring the shell 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 1 1/2" bottom 1 1/2"

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 nuts Working pressure by rules 181 Material of stays S. Area 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 nuts Working pressure by rules 184 Material of stays S Area 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 1/2"

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 lbs 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

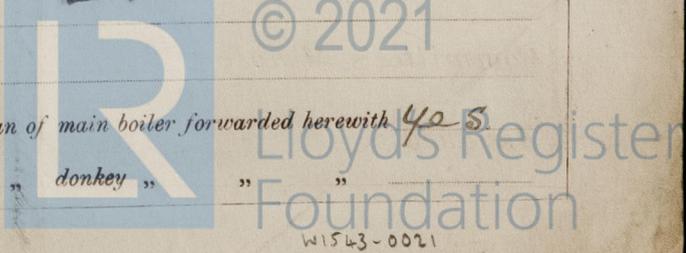
VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

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 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.
J. Spencer & Sons Ld. Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1907. March 15, 19, 26. April 29, 21, 26, 29. During erection on board vessel - - - }
 Total No. of visits 57

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 Surveyors are requested not to write on or below the space for 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. Y. Studley & 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*

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