

REPORT ON BOILERS.

FRI. 27 SEP 1907

Received at London Office

Date of writing Report 19 When handed in at Local Office 18 SEP 1907 Port of Newcastle-on-Tyne
 No. in Survey held at Wallsend Date, First Survey 9th May 1907 Last Survey Aug 29 1907
 Reg. Book. Steel screw Trawler "Argow" (Number of Visits) Gross 226
 Tons Net 67
 Built at Goole By whom built Goole S B Co (no. 100) When built 1907
 Engines made at Coatbridge 1113 By whom made W. V. V. Ridgerwood (no 268) when made 1907
 Boilers made at Wallsend. nrc. By whom made Wallsend Slipway Co (18913) when made 1907
 Registered Horse Power 70 Owners Western S. F. Co. Ltd Port belonging to Swansea

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

Letter for record R. Total Heating Surface of Boilers 11750 Is forced draft fitted no No. and Description of

Boilers 1 S. E. Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 13. 7. 07.

No. of Certificate 7526 Can each boiler be worked separately ✓ Area of fire grate in each boiler 34. 6 sq No. and Description of

Safety valves to each boiler two direct Spring Area of each valve 2 1/2" dia 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 10" Mean dia. of boilers 12' 6" Length 10' 3"

Material of shell plates S Thickness 1 3/8 Range of tensile strength 28. 32. Are the shell plates welded or flanged ends

Description of riveting: cir. seams 2. 7 lap long. seams 2. butts Diameter of rivet holes in long. seams 1 3/8 Pitch of rivets 7 3/4

Gap of plates or width of butt straps 16 1/2 Per centages of strength of longitudinal joint rivets 87. 25 Working pressure of shell by plate 85. 89

Number of plates 181. Size of manhole in shell 16" x 12" Size of compensating ring 14" Heilo No. and Description of Furnaces in each

Boiler 2 plain Material S Outside diameter 43 1/8 Length of plain part top 6' 0 Thickness of plates crown 49 bottom 64

Description of longitudinal joint weld No. of strengthening rings 27 Working pressure of furnace by the rules 181 Combustion chamber

Plates: Material S Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 15/16 Pitch of stays to ditto: Sides 8 1/2 x 9 1/2 Back 9 x 8 1/2

Top 9 1/2 x 8 1/2 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 80 1/2 Working pressure by rules 185 End plates in steam space: Material S Thickness 1 1/8

Pitch of stays 19 x 16 3/8 How are stays secured 2. nuts Working pressure by rules 180 Material of stays S Diameter at smallest part 2. 79"

Area supported by each stay 311 1/8 Working pressure by rules 196 Material of Front plates at bottom S Thickness 1" Material of

Lower back plate S Thickness 15/16 Greatest pitch of stays 14" Working pressure of plate by rules 183 Diameter of tubes 3 1/2"

Pitch of tubes 5 x 5" Material of tube plates S Thickness: Front 1" Back 3/4 Mean pitch of stays 10" Pitch across wide

Water spaces 14" Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of

Girder at centre 9 x 12" Length as per rule 33 1/8 Distance apart 8 1/2 Number and pitch of Stays in each 20 of 9 1/2"

Working pressure by rules 181 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

The foregoing is a correct description, FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED. Manufacturer.

Dates of Survey: During progress of work in shops - - - 1907 May 9, June 17, 12, 13, July 21, 11, 13, Aug 16 Is the approved plan of boiler forwarded herewith no
 while building: During erection on board vessel - - - Aug 17, 19, 20, 21, 22, 26, 27, 29 Total No. of visits 18

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

Survey Fee £ Please see Report When applied for, 19
 Travelling Expenses (if any) £ on Machinery :) When received, 19

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

TUES. 1 OCT 1907

Committee's Minute
 Assigned

