

REPORT ON BOILERS.

New No. 54399
No. 5334

WED. 1 JAN 1908
SAT. 21 MAR 1908

Date of writing Report 19... When handed in at Local Office 19... Port of Middlesbrough
 No. in Survey held at Middlesbrough Date, First Survey August 30 Last Survey 27 Feb. 1908
 Reg. Book. 9th Sup. on the Main Boiler No. 3190 of "Arfow" 113 (Number of Visits) Tons { Gross }
 Master Goolle Built at Goolle By whom built Goolle S.B. Co. Ltd When built 1908
 Engines made at Grantham By whom made Hedgerwoods' No 283 when made 1908
 Boilers made at Middlesbrough By whom made Richardsons Westgarth & Co. Ltd when made 1907-8
 Registered Horse Power 70 Owners Peter S. Hawling Co. Ltd Port belonging to Milford

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Clyde Bridge Steel Co. Ltd

(Letter for record P.) Total Heating Surface of Boilers 1227 sq ft Is forced draft fitted no No. and Description of

Boilers One Cyl. Single ended Working Pressure 180 lb. Tested by hydraulic pressure to 360 lb. Date of test 6/12/07

No. of Certificate H067 Can each boiler be worked separately ✓ Area of fire grate in each boiler 374 sq ft No. and Description of

safety valves to each boiler two direct spring Area of each valve 4.9 sq ft 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 9" Mean dia. of boilers 12'-6" Length 10'-6"

Material of shell plates Steel Thickness 1 3/4 Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D.R.L. long. seams J.R.D.B.S. Diameter of rivet holes in long. seams 1 7/16 Pitch of rivets 3 7/8 2 rows

Lap of plates or width of butt straps 16 1/2 x 1 1/2 Per centages of strength of longitudinal joint rivets 88 Working pressure of shell by

rules 184 Size of manhole in shell 12 x 16 Size of compensating ring 8 1/2 x 1 3/4 No. and Description of Furnaces in each

boiler 2 plain Material Steel Outside diameter 3'-6 1/2 Length of plain part 6'-3" Thickness of plates 4 9/16

Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 183 Combustion chamber

plates: Material Steel Thickness: Sides 4 1/16 Back 4 1/16 Top 4 1/16 Bottom 1 3/16 Pitch of stays to ditto: Sides 9 3/4 x 9 Back 10 1/2 x 8

Top 9 1/4 x 9 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays Steel Diameter at

smallest part 2.096 Area supported by each stay 84 Working pressure by rules 186 End plates in steam space: Material Steel Thickness 1 3/16

Pitch of stays 19 x 19 How are stays secured D.R. & W. Working pressure by rules 185 Material of stays Steel Diameter at smallest part 4.9

Area supported by each stay 272 Working pressure by rules 180 Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 5/16 Greatest pitch of stays 16 1/2 x 8 Working pressure of plate by rules 182 Diameter of tubes 3 1/2

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

water spaces 14 1/2" Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 9 1/2 x 1 3/4 Length as per rule 2'-9" Distance apart 9 1/4" Number and pitch of Stays in each 2 9 3/4"

Working pressure by rules 236 Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked

separately no 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 RICHARDSONS, WESTGARTH & Co. Ltd. Manufacturer.

Dates of Survey { During progress of 1907: Aug 30, Sept 14, 24, Oct 9, 16, 21, Nov 9, 14, 21, Dec 9, 16 } Is the approved plan of boiler forwarded herewith duplicate No. 3189

while building { During erection on board vessel - - - } 1908: Feb. 20, 24, 27, 28 Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built

under Special Survey. The materials and workmanship are good

The boiler fitted upon board tested under steam and found

efficient.

Survey Fee ... £ 3 : 10 } When applied for, 19...
 Travelling Expenses (if any) £ : : } When received, 10. 1. 1908

Assigned Send Hull.

Committee's Minute

1UES. 24 MAR 1908

R.D. Shilston - Leonard Shalleross.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

© 2020 Lloyd's Register Foundation