

REPORT ON BOILERS.

No. 88731

Received at London Office

11 JUN 1932

ing Report 7.6. 1932 When handed in at Local Office 9.6. 1932 Port of Newcastle-on-Tyne
 Survey held at Newcastle-on-Tyne Date, First Survey 22 Jan Last Survey 7.6. 1932
 (Number of Visits 14) Gross Tons Net
 Built at Monfalcone By whom built C. Rinaldi dell'Adriatico Yard No. 251 When built
 By whom made Engine No. When made (nos 516)
 Newcastle-on-Tyne By whom made R. & W. Hawthorn, Leslie & Co. Ld. Boiler No. 9648 When made 1932
 Horse Power 306 Owners Port belonging to

TUBULAR BOILERS—~~MAIN, AUXILIARY, OR~~ DONKEY.

ers of Steel The Steel Company of Scotland Ltd., Girdlingham Iron & Steel Co. Ltd. (Letter for Record S.)
 ting Surface of Boilers 4598 Is forced draught fitted Coal or Oil fired oil
 Description of Boilers Two Single Ended Working Pressure 200 lbs./sq.
 hydraulic pressure to 350 lbs./sq. Date of test 7.6.32 No. of Certificate 582 Can each boiler be worked separately
 Regrate in each Boiler 761 No. and Description of safety valves to each boiler Two Spring loaded
 Each set of valves per boiler {per Rule 17.32 as fitted 19.24 Pressure to which they are adjusted Are they fitted with easing gear
 donkey boilers, state whether steam from main boilers can enter the donkey boiler
 distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers
 distance between shell of boiler and tank top plating Is the bottom of the boiler insulated
 Internal dia. of boilers 14'-1" Length 12'-0" Shell plates: Material Steel Tensile strength 28/32 tons/sq.
 1 9/32 Are the shell plates welded or flanged 20 Description of riveting: circ. seams {end DR Lap inter. 37/8
 T.R.D.B.S. Diameter of rivet holes in {circ. seams 1 3/8 1 3/8 Pitch of rivets {9 3/32
 of strength of circ. end seams {plate 64.5 rivets 49 Percentage of strength of circ. intermediate seam {plate - rivets -
 of strength of longitudinal joint {plate 85.2 rivets 96.8 combined 89.5 Working pressure of shell by Rules 200 lbs./sq.
 of butt straps {outer 1 3/16 1 3/16 No. and Description of Furnaces in each Boiler 3 Horizons
 Steel Tensile strength 26/30 tons/sq. Smallest outside diameter 3'-6 3/16"
 of plain part {top - bottom Thickness of plates {crown 1 1/8 1 1/8 Description of longitudinal joint weld
 of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 204 lbs./sq.
 tes in steam space: Material Steel Tensile strength 26/30 tons/sq. Thickness 1 1/8 Pitch of stays 16 3/4 x 16"
 stays secured D. Nuts Working pressure by Rules 219 lbs./sq.
 tes: Material {front Steel Tensile strength {26/30 tons/sq. Thickness {1 1/8 1 1/8
 {back Steel Thickness {1 1/8 1 1/8 Working pressure {front 213 lbs./sq. back 204 lbs./sq.
 tch of stay tubes in nests 8 23/32 Pitch across wide water spaces 13 3/4 Working pressure {front 213 lbs./sq. back 204 lbs./sq.
 to combustion chamber tops: Material Steel Tensile strength 28/32 tons/sq. Depth and thickness of girder
 10" x 2 @ 2 1/32 Length as per Rule 34 7/16 Distance apart 6 3/4 Centre 8 1/2 wings No. and pitch of stays
 3 @ 8" Working pressure by Rules 205 lbs./sq. Combustion chamber plates: Material Steel
 strength 26/30 tons/sq. Thickness: Sides 2 1/32 Back 5/8 Top 2 1/32 Bottom 7/8
 of stays to ditto: Sides 8" x 7 3/4 Back 7 3/8 x 7 5/8 Top 8 1/2 x 8 Are stays fitted with nuts or riveted over nuts
 ng pressure by Rules 223 lbs./sq. Front plate at bottom: Material Steel Tensile strength 26/30 tons/sq.
 ess 5/16 Lower back plate: Material Steel Tensile strength 26/30 tons/sq. Thickness 1"
 of stays at wide water space 15" Are stays fitted with nuts or riveted over nuts
 Shipping Pressure 248 lbs./sq. Main stays: Material Steel Tensile strength 28/32 tons/sq.
 {At body of stay, 2 3/4 No. of threads per inch 6 Area supported by each stay 264 sq.
 {Over threads -
 ng pressure by Rules 248 lbs./sq. Screw stays: Material Steel Tensile strength 26/30 tons/sq.
 {At turned off part, No. of threads per inch 9 Area supported by each stay 66.72 sq. x 56.2 sq.
 {Over threads 1 5/8 x 1 1/2

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Working pressure by Rules 223 lbs./sq. in. Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads 1 3/8" x 1 1/2"
No. of threads per inch 9 Area supported by each stay 83.4 sq. in. Working pressure by Rules 218 lbs./sq. in.
Tubes: Material 40 Steel External diameter { Plain 2 3/4" Thickness { 9 W. G. 1/4" No. of threads per inch 9
Pitch of tubes 3 7/8" x 3 7/8" Working pressure by Rules 215 lbs./sq. in. Manhole compensation: Size of shell plate 17" x 13" Section of compensating ring 9 1/2" x 1 7/8" No. of rivets and diameter of rivet holes 30 R. 1/2"
Outer row rivet pitch at ends 10 3/8" Depth of flange if manhole flanged - Steam Dome: Material -
Tensile strength - Thickness of shell - Description of longitudinal joint -
Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint { Plate - Rivets -
Internal diameter - Working pressure by Rules - Thickness of crown - No. and stays -
Inner radius of crown - Working pressure by Rules -
How connected to shell - Size of doubling plate under dome - Diameter of rivet holes of rivets in outer row in dome connection to shell -

Type of Superheater None Manufacturers of { Tubes - Steel castings -
Number of elements - Material of tubes - Internal diameter and thickness of tubes -
Material of headers - Tensile strength - Thickness - Can the superheater be the boiler be worked separately -
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler -
Area of each safety valve - Are the safety valves fitted with easing gear - Working pressure Rules -
Pressure to which the safety valves are adjusted - Hydraulic test tubes -, castings - and after assembly in place - Are drain cocks or to free the superheater from water where necessary -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with For

The foregoing is a correct description

P. B. Johnson

GENERAL MANAGER.

Dates of Survey { During progress of work in shops - - - 1931 Dec. 22, 1932 Jan 8, 26, Feb. 2, 9, 16, 22, Mar. 1, 4. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - 24, 31, Apr. 7, 11, June 7.
Total No. of visits 14

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. C.R.A. M.V. 249, 250 have

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under Special Survey in accordance with the rules and approved plan; the workmanship and workmanship are good.
The boilers are to be despatched to Hongkong to be fitted in the vessel.

Survey Fee £ 27 : 16 : 0 When applied for, 10 JUN 1932
Travelling Expenses (if any) £ : : When received, 5/7/1932

H. B. Forster

Engineer Surveyor to Lloyd's Register of

Committee's Minute

TUE. 2 JAN 1934

Assigned

See Tr. J.C. 10248



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