

REPORT ON BOILERS.

No. 56390

Received at London Office 10 DEC 1935

Writing Report 19 When handed in at Local Office 29. 11. 1035 Port of Glasgow
 Survey held at Glasgow Date, First Survey 28. 6. 35 Last Survey 29-11-1935
 on the new steel s/s "WOODBURY" (Number of Visits 31) Tons { Gross Net
 Built at Buntisland By whom built Buntisland SBCold Yard No. 188 When built 1935
 made at Glasgow By whom made David Rowan & Co Ltd Engine No. 983 When made 1935
 made at Glasgow By whom made David Rowan & Co Ltd Boiler No. 983 When made 1935
 Horse Power 317 Owners Port belonging to London

TITUBULAR BOILERS—MAIN, AUXILIARY, OR—DONKEY.

Manufacturers of Steel Lohmiller Ltd (Letter for Record (S))
 Heating Surface of Boilers 1050 sq ft Is forced draught fitted no Coal or Oil fired coal
 Description of Boilers one single ended Working Pressure 220
 by hydraulic pressure to 380 Date of test 2-10-35 No. of Certificate 19614 Can each boiler be worked separately -
 of Firegrate in each Boiler 34 sq ft No. and Description of safety valves to each boiler 1 1/2" Improved High Lift (two)
 of each set of valves per boiler { per Rule 2.7920' as fitted 3.520' Pressure to which they are adjusted 220 lb Are they fitted with easing gear yes
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler -
 distance between boilers or uptakes and bunkers or woodwork 26" Is oil fuel carried in the double bottom under boilers No
 distance between shell of boiler and tank top plating 2'-6" Is the bottom of the boiler insulated Yes
 internal dia. of boilers 11'-0" Length 10'-6" Shell plates: Material steel Tensile strength 29-33 tons
 Are the shell plates welded or flanged no Description of riveting: circ. seams { end DR inter. -
 seams DBS. TR Diameter of rivet holes in { circ. seams } all 1 1/8" Pitch of rivets { 3.069" 7 5/8"
 Percentage of strength of circ. end seams { plate 63.5 rivets 48.2 Percentage of strength of circ. intermediate seam { plate rivets
 Percentage of strength of longitudinal joint { plate 85.24 rivets 90.7 combined 88.7 Working pressure of shell by Rules 222
 thickness of butt straps { outer 13" inner 15" No. and Description of Furnaces in each Boiler Two Deighton
 Tensile strength 26-30 tons Smallest outside diameter 3'-2 5/32"
 Thickness of plates { crown 37" bottom 64" Description of longitudinal joint welded
 Working pressure of furnace by Rules 220
 plates in steam space: Material steel Tensile strength 26-30 tons Thickness 31/32" Pitch of stays 14" x 14"
 are stays secured DN Working pressure by Rules 221
 plates: Material { front steel back " Tensile strength { 26-30 tons Thickness { 31/32" 25/32"
 pitch of stay tubes in nests 9'-4" Pitch across wide water spaces 14" Working pressure { front 246 back 232
 plates to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder
 centre 2 @ 6 3/4" x 7 1/8" Length as per Rule 2'-4 1/2" Distance apart 7 1/2" No. and pitch of stays
 Working pressure by Rules 227 Combustion chamber plates: Material steel
 Tensile strength 26-30 tons Thickness: Sides 23/32" Back 23/32" Top 23/32" Bottom 23/32"
 of stays to ditto: Sides 9" x 7 1/2" Back 9 1/2" x 8 5/8" Top 9" x 7 1/2" Are stays fitted with nuts or riveted over nuts
 Working pressure by Rules 221 Front plate at bottom: Material steel Tensile strength 26-30 tons
 Thickness 31/32" Lower back plate: Material steel Tensile strength 26-30 tons Thickness 31/32"
 of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts
 Working Pressure 302 Main stays: Material steel Tensile strength 28-32 tons
 meter { At body of stay, 2 1/4" No. of threads per inch 6 Area supported by each stay 196 sq in
 Over threads
 Working pressure by Rules 220 Screw stays: Material steel Tensile strength 26-30 tons
 meter { At turned off part, 1 5/8" 1 3/4" 1 7/8" No. of threads per inch 9 Area supported by each stay 67.5 sq in 81.8 sq in 94.5 sq in
 Over threads

Working pressure by Rules 225 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 1 7/8"
No. of threads per inch 9 Area supported by each stay 94.5" Working pressure by Rules 224
Tubes: Material Iron External diameter { Plain 3" Thickness 8 W 9 No. of threads per inch 9
Pitch of tubes 4 1/8" x 4 3/16" Working pressure by Rules 250 Manhole compensation: Size of opening
shell plate 19 1/2" x 15 1/2" Section of compensating ring 8 1/2" x 1 1/16" No. of rivets and diameter of rivet holes 34 @ 1 3/16"
Outer row rivet pitch at ends 8" Depth of flange if manhole flanged 3" Steam Dome: Material none
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 diameters
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
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 shut off
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 as
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes, castings and after assembly in place Are drain cocks or valves fitted
to free the superheater from water where necessary

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

The foregoing is a correct description,
For David Rowan & Co. Ltd.
Arch. H. Grierson Manufacture

Dates of Survey { During progress of work in shops - - }
while building { During erection on board vessel - - }
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) yes
SEE ACCOMPANYING MACHINERY REPORT.
Total No. of visits

Is this Boiler a duplicate of a previous case ye If so, state Vessel's name and Report No. Auretta. Egs Rpt. No 55948

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

The materials and workmanship are good.
The boiler has been constructed under special survey.
It has been sent to Burntisland to be fitted in the vessel.

This boiler has been efficiently fitted on board, examined under steam & safety valves adjusted 220 lbs

CR

Survey Fee ... £ See minor Rpt When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

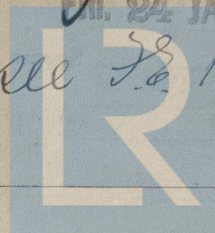
Committee's Minute GLASGOW 3-DEC 1935

Assigned SEE ACCOMPANYING MACHINERY REPORT.

Walter H. C. Davis
Engineer Surveyor to Lloyd's Register of Shipping

JAN 24 1936

see J. Machy. Rpt.



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