

REPORT ON BOILERS.

No. 54510

Received at London Office 16 MAY 1934

Date of writing Report 19 When handed in at Local Office 8. 5. 1934 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 11. 5. 33 Last Survey 5-5-1934
 Book. on the new steel S/S "ARGOW" (Number of Visits 71) Tons { Gross 4118 Net 2479
 Built at Port Glasgow By whom built Lithgows Ltd Yard No. 866 When built 1934
 Engines made at Glasgow By whom made Davie Rowan & Co Ltd Engine No. 963 When made 1934
 Boilers made at Glasgow By whom made Davie Rowan & Co Ltd Boiler No. 963 When made 1934
 Nominal Horse Power 352 Owners Argow Shipping Co Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Bohills Ltd (Letter for Record (S))
 Total Heating Surface of Boilers 3712 sq ft Is forced draught fitted yes Coal or Oil fired coal
 No. and Description of Boilers Two single ended Working Pressure 220
 Tested by hydraulic pressure to 380 Date of test 24-8-33 No. of Certificate 19273 Can each boiler be worked separately -
 Area of Firegrate in each Boiler 95 sq ft No. and Description of safety valves to each boiler Two Improved high lift
 Area of each set of valves per boiler { per Rule 4.930 as fitted 6.280 Pressure to which they are adjusted 225 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" Is oil fuel carried in the double bottom under boilers no
 Smallest distance between shell of boiler and tank top plating 2'-1" Is the bottom of the boiler insulated yes
 Largest internal dia. of boilers 13'-6" Length 11'-6" Shell plates: Material Steel Tensile strength 29.33 tons
 Thickness 1 1/2" Are the shell plates welded or flanged no Description of riveting: circ. seams { end WR inter. -
 Long. seams WRB TR Diameter of rivet holes in { circ. seams F 1 1/16" B 1 3/8" Pitch of rivets { F 3.156" B 3.74"
 Percentage of strength of circ. end seams { plate F 62.3 B 63.2 rivets F 43.4 B 49.2 Percentage of strength of circ. intermediate seam { plate - rivets -
 Percentage of strength of longitudinal joint { plate 85.23 rivets 92.2 combined 88.9 Working pressure of shell by Rules 220
 Thickness of butt straps { outer 3 1/2" inner 1 3/2" No. and Description of Furnaces in each Boiler Three Deighton
 Material Steel Tensile strength 26-30 tons Smallest outside diameter 39.1875
 Length of plain part { top - bottom - Thickness of plates { crown 1 1/2" bottom 3/2" Description of longitudinal joint welded
 Dimensions of stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules 220
 End plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 1 1/2" Pitch of stays 18" x 15 1/2"
 How are stays secured DN Working pressure by Rules 221
 Tube plates: Material { front Steel back " Tensile strength { 26-30 tons Thickness { 1 1/2" 2 1/2" 2 1/2"
 Lean pitch of stay tubes in nests 9.5" Pitch across wide water spaces 14" Working pressure { front 221 back 242
 Girders to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder
 At centre 2 @ 7 3/4" x 7 1/2" Length as per Rule 31.5625 Distance apart 8 1/4" No. and pitch of stays
 At each 2 @ 10" Working pressure by Rules 224 Combustion chamber plates: Material Steel
 Tensile strength 26-30 tons Thickness: Sides 3/4" Back 2 1/2" Top 3/4" Bottom 3/4"
 Pitch of stays to ditto: Sides 10" x 7 1/2" Back 8 1/2" x 8" Top 8 1/4" x 10" Are stays fitted with nuts or riveted over nuts
 Working pressure by Rules 220 Front plate at bottom: Material Steel Tensile strength 26-30 tons
 Thickness 1 1/2" Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 1 1/2"
 Pitch of stays at wide water space 13 7/16" Are stays fitted with nuts or riveted over nuts
 Working Pressure 220 Main stays: Material Steel Tensile strength 28-32 tons
 Diameter { At body of stay, 2 3/4" No. of threads per inch 6 Area supported by each stay 296 sq"
 Over threads - Working pressure by Rules 221 Screw stays: Material Steel Tensile strength 26-30 tons
 Diameter { At turned off part, 1 5/8" 1 3/4" No. of threads per inch 9 Area supported by each stay 68.8 sq"
 Over threads -

Working pressure by Rules 224 & 220 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 1 3/4"
No. of threads per inch 9 Area supported by each stay 82.7 sq" Working pressure by Rules 220
Tubes: Material Iron External diameter { Plain 3" Stay 3" Thickness { 8 W.G. 5 3/16" No. of threads per inch 9
Pitch of tubes 4 1/4" x 4 3/8" Working pressure by Rules 250 Manhole compensation: Size of opening in
shell plate 15 1/2" x 19 1/2" Section of compensating ring 9 1/4" & 1 1/2" No. of rivets and diameter of rivet holes 32 @ 1 3/8"
Outer row rivet pitch at ends 9 5/16" Depth of flange if manhole flanged 3" Steam Dome: Material Iron
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 diameter of
stays _____ Inner radius of crown _____ Working pressure by Rules _____
How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell _____

Type of Superheater _____ 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 and
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 per
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 yes

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

Dates { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith
of Survey while building { During erection on board vessel - - - (If not state date of approval.)
SEE ACCOMPANYING MACHINERY REPORT.

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. _____

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

The materials and workmanship are good.
The boilers have been constructed under special survey, satisfactorily fitted
in the vessel and their safety valves adjusted under steam.

7/5/34

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

S. Davis.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 15 MAY 1934

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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