

REPORT ON BOILERS.

No. 92373

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.

Received at London Office.....

Date of writing Report 12.4.19.61 When handed in at Local Office 18.4.19.61 Port of GLASGOW

No. in Reg. Book Survey held at Glasgow Date, First Survey 25.10.60 Last Survey 29.3.19.61

on the (Number of Visits 21) Tons {Gross Net

Built at By whom built Yard No. When built

Engines made at Newbury, Berks By whom made Plenty & Sons Ltd. Engine No. 2909 When made

Boilers made at Glasgow By whom made D. Rowan & Co. Ltd. Boiler No. B623 When made 1961

as per Rule Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd.

Total Heating Surface of Boilers 2908 sq. ft. Of Superheaters -

Total for Register Book Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers One Marine Horizontal Return Tube Working Pressure 200 lb/sq"

tested by hydraulic pressure to 350 lb/sq" Date of test 28.3.61 No. of Certificate 25856 Can each boiler be worked separately -

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler One - 2.1/2" Double Spring Loaded Improved High Lift

Area of each set of valves per boiler {per Rule 4.23 as fitted 4.9087 Pressure to which they are adjusted - 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 Is oil fuel carried in the double bottom under boilers -

Actual smallest distance between boilers or uptakes and bunkers or woodwork Is the bottom of the boiler insulated -

Largest internal dia. of boilers 15'6" Length 11'6" Shell plates: Material Steel Tensile strength 29/33 Tons

fusion welded, state name of welding Firm - Have all the requirements of the Rules for Class I vessels Yes

Thickness 1.3/8" Are the shell plates welded or flanged - Description of riveting: circ. seams {end Double riveting inter -

seams T.R.D.B.S. Diameter of rivet holes in {circ. seams 1.5/16" front 1.7/16" back 3.423" front 3.924" back 1.7/16" Pitch of rivets {plate 9.11/16" rivets -

Percentage of strength of circ. end seams {plate 61.66 front 63.39 back 45.59 front 47.69 back 85.17 rivets 90.59 combined 88.42 Percentage of strength of circ. intermediate seam {plate - rivets -

Percentage of strength of longitudinal joint {plate - rivets - combined 88.42

Thickness of butt straps {outer 1.3/64" inner 1.11/64" No. and Description of Furnaces in each Boiler 3 @ 3'9" Int. dia. Daighton Section Gourley-Stephen End Smallest outside diameter 3'10.5/16"

Material Steel Tensile strength 26/30 Tons Description of longitudinal joint Welded

Thickness of plain part {top 3.7/8" bottom 3.7/8" Thickness of plates 21/32"

Dimensions of stiffening rings on furnace or c.c. bottom

Shell plates in steam space: Material Steel Tensile strength 26/30 Tons Thickness 1.11/32" Pitch of stays 20.3/8" x 19.1/2"

Are stays secured Double Nuts

Shell plates: Material {front Steel back Steel Tensile strength {26/30 Tons Thickness {7/8" 26/30 Tons 3/4"

Minimum pitch of stay tubes in nests 9.7/8" Pitch across wide water spaces 13.3/4" x 7.3/4"

Stays to combustion chamber tops: Material Steel Tensile strength 28/32 Tons Depth and thickness of girder 12.5/8" x 1.1/4" Length as per Rule 2'10.9/16" Distance apart 9.3/8" + 8" Centre No. and pitch of stays Welded Girder

Combustion chamber plates: Material Steel

Strength 26/30 Thickness: Sides 45/64" Back 11/16" Top 45/64" Bottom 25/32"

of stays to ditto: Sides 9.1/4" x 9" Back 9.1/2" x 8" Top - Are stays fitted with nuts or riveted over Welded

Shell plate at bottom: Material Steel Tensile strength 26/30 Tons

Thickness 7/8" Lower back plate: Material Steel Tensile strength 26/30 Tons Thickness 51/64"

of stays at wide water space 13.1/2" x 8" Are stays fitted with nuts or riveted over Welded

Supporting stays: Material Steel Tensile strength 28/32 Tons

At body of stay 3 1/2" x 3" Bottom 2 1/2" x 2 1/2" Over threads 3 1/2" x 3" No. of threads per inch 6

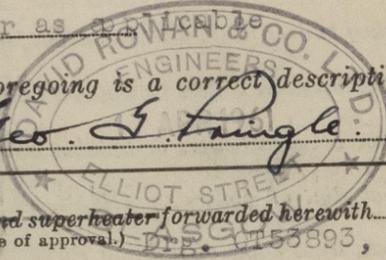
Supporting stays: Material Steel Tensile strength 26/30 Tons

At turned off part 1 5/8" x 1 3/8" x 7/8" & 2" Over threads 1 5/8" x 1 3/8" x 7/8" & 2" No. of threads per inch 9



Are the stays drilled at the outer ends No Margin stays: Diameter 1 5/8" 1 7/8" 2"
 No. of threads per inch 9
 Tubes: Material Steel External diameter 2 3/4" Thickness 5/16" & 3/8" No. of threads per inch 9
 Pitch of tubes 4" x 3 7/8" Manhole compensation: Size of opening 13 5/8"
 shell plate 19 1/2" x 15 1/2" Section of compensating ring 17 5/8" x 1 3/8" No. of rivets and diameter of rivet holes 32 rivets, 1 7/8"
 Outer row rivet pitch at ends 9 7/8" Depth of flange if manhole flanged 3" 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 _____ Thickness of crown _____ No. and diameter of stays _____
 How connected to shell _____ Inner radius of crown _____ Diameter of rivet holes and of rivets in outer row in dome connection to shell _____
 Type of Superheater _____ Manufacturers of { Tubes _____ Steel forgings _____ 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 from the boiler _____
 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 _____
 Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
 tubes _____ forgings and castings _____ and after assembly in place _____ Are drain 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 so far as applicable

The foregoing is a correct description,
Geo. S. Fungle Manufac
 1960 Oct. 25 Dec. 13, 20. 1961 Jan. 11, 16, 19
 Feb. 1, 3, 9, 13, 20, 23 Mar. 1, 7. Are the approved plans of boiler and superheater forwarded herewith Yes
 (If not state date of approval.) _____
 Total No. of visits 21



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 boiler has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters, the materials and workmanship being found good.
 The boiler will be eligible, in my opinion, to be classed in the R.B. with the main machinery when satisfactorily installed and tested in the vessel.

Survey Fee £ 45 : 0 : 0 } When applied for, 20 APR 1961
 Travelling Expenses (if any) £ 1 : 1 : 0 } When received19.....

Date entry made in RFB. 18/4/61
 Surveyor's Initials. JM

John Macleod
 Engineer Surveyor to Lloyd's Register of Ship
 (J. MACLEOD)

Committee's Minute GLASGOW 25 APR 1961

Assigned Deferred for completion

