

REPORT ON BOILERS.

No. 62760

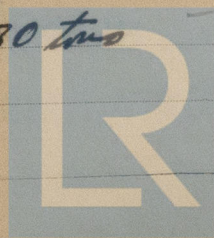
Received at London Office

9 Writing Report 19 When handed in at Local Office 21:9:1940 Port of GLASGOW
 Size of op 1 7/8" Survey held at Glasgow Date, First Survey 22:11:39 Last Survey 11th Sept. 1940
 3 on the 5/5 "LULWORTH HILL" (Number of Visits ☒) Gross 5500 Tons
 Pt. Glasgow By whom built Wm. Hamilton & Co. Ltd. Yard No. 440 When built 1940
 made at Glasgow By whom made David Brown & Co. Ltd. Engine No. 1041 When made 1940
 made at do. By whom made do. Boiler No. 1041 When made 1940
 Horse Power 520 Owners Domet S.S. Co. Ltd. Port belonging to London

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Company of Scotland (Letter for Record S)
 Heating Surface of Boilers 5940 sq ft Is forced draught fitted Yes Coal or Oil fired Oil
 Description of Boilers 2 5 mpa - ended Working Pressure 225 lb.
 by hydraulic pressure to 388 lb. Date of test 29/5/40 No. of Certificate 20578 Can each boiler be worked separately Yes
 Firegrate in each Boiler 7.730 sq ft No. and Description of safety valves to each boiler 1-2 1/2" I.H.L. double
 of each set of valves per boiler {per Rule 7.730 as fitted 9.80 Pressure to which they are adjusted 225 lb. Are they fitted with easing gear Yes
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler -
 est distance between boilers or uptakes and bunkers or woodwork 22" Is oil fuel carried in the double bottom under boilers Yes
 est distance between shell of boiler and tank top plating 2'-6" Is the bottom of the boiler insulated Yes
 st internal dia. of boilers 15'-9" Length 12'-0" Shell plates: Material steel Tensile strength 30/34 tons
 ness 1 3/16" Are the shell plates welded or flanged no Description of riveting: circ. seams {end double inter. -
 seams DBS TR Diameter of rivet holes in {circ. seams 19/16" 1 3/8" Pitch of rivets 4.332" B 3.425" F
 {long. seams 19/16" 10 3/8"
 ntage of strength of circ. end seams {plate 83.93 60F rivets 45.7 45.2 Percentage of strength of circ. intermediate seam {plate 84.94 rivets 88.7 combined 87.8
 ntage of strength of longitudinal joint {plate 84.94 rivets 88.7 combined 87.8
 ness of butt straps {outer 1 1/8" inner 1 1/4" No. and Description of Furnaces in each Boiler 3 Single
 rial steel Tensile strength 26/30 tons Smallest outside diameter 3'-10 7/16"
 h of plain part {top 29" bottom 32" Thickness of plates {crown 29" bottom 32" Description of longitudinal joint welded
 nsions of stiffening rings on furnace or c.c. bottom -
 plates in steam space: Material steel Tensile strength 26/30 tons Thickness 1 3/8" Pitch of stays 19" x 21 1/2"
 are stays secured double nuts
 plates: Material {front steel back steel Tensile strength { 26/30 tons Thickness { 1 5/16" 25/32"
 pitch of stay tubes in nests 9.67" Pitch across wide water spaces 14"
 ers to combustion chamber tops: Material steel Tensile strength 28/32 tons Depth and thickness of girder
 ntre 2 @ 9 1/4" x 7/8" Length as per Rule 2'-10 17/32" Distance apart W 8 3/8" C 7 1/8" No. and pitch of stays
 ch 3 @ 8 1/4" Combustion chamber plates: Material steel
 ile strength 26/30 tons Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 27/32"
 of stays to ditto: Sides 8 1/4" x 8 7/8" Back 8" x 8 1/2" Top 8 1/4" x 8 7/8" Are stays fitted with nuts or riveted over Nuts
 t plate at bottom: Material steel Tensile strength 26/30 tons
 kness 15/16" Lower back plate: Material steel Tensile strength 26/30 tons Thickness 53/64"
 h of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over Nuts
 stays: Material steel Tensile strength 28/32 tons
 r of Shippi {At body of stay, 3" x 3 1/4" No. of threads per inch 6
 neter {Over threads -
 w stays: Material steel Tensile strength 26/30 tons
 neter {At turned off part, 1 5/8" x 1 3/4" No. of threads per inch 9
 {Over threads -

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Foundation

Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, *7/8"* or Over threads *1 7/8"*

No. of threads per inch *9*

Tubes: Material *Iron* External diameter { Plain *3"* Stay *3"* Thickness { *8 WG* *5/16", 3/8" + 1/16"* No. of threads per inch *9*

Pitch of tubes *4 1/8" x 4 3/16"* Manhole compensation: Size of opening in shell plate *15 1/2" x 19 1/2"* Section of compensating ring *10 1/2" x 1 3/4"* No. of rivets and diameter of rivet holes *34 @ 1 9/16"*

Outer row rivet pitch at ends *10 5/8"* 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 Thickness of crown No. and diameter of stays Inner radius of crown

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 *Superheater G. Rd. Smokedrums* Manufacturers of { Tubes *See Manchester Cert. 49552 + 55* Steel forgings *Copps Lenth.* 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 *no* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *Yes*

Area of each safety valve *1.760"* Are the safety valves fitted with easing gear *Yes*

Pressure to which the safety valves are adjusted *225 lb.* Hydraulic test pressure: tubes forgings and castings and after assembly in place *450 lb.* Are drain cocks or valves fitted to free the superheater from water where necessary *Yes*

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

The foregoing is a correct description,
For David Roway & Co. Ltd. Manufacturer.
Arch. H. Driscoll

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith *24/7/39* (If not state date of approval.) while building { During erection on board vessel - - -

SEE ACCOMPANYING MACHINERY REPORT.

Is this Boiler a duplicate of a previous case *Yes* If so, state Vessel's name and Report No. *"MARIETTA E" Jls. Rpt. 62642*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. They have been satisfactorily installed in the vessel and the safety valves have been adjusted to the working pressure.*

Survey Fee ... £ *See March 4th* When applied for, 19
Travelling Expenses (if any) £ *See* When received, 19

A. J. Brown
Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 24 SEP 1940*

Assigned *SEE ACCOMPANYING MACHINERY REPORT*