

REPORT ON BOILERS.

No. 18040

Received at London Office

22 JUL 1932

Writing Report 20. 7. 32 When handed in at Local Office 21. 7. 32 Port of Grimsby
 Size of in Book 1 Survey held at Lincoln Date, First Survey 17. 11. 1931 Last Survey 15. 7. 1932
 on the Marquise Fudy (Number of Visits 48) Gross Tons Net Tons
 at Thompson By whom built Cantieri Riuniti dell'Adriatico Yard No. 251 When built
 es made at By whom made Engine No. When made
 s made at Lincoln By whom made Babcock & Wilcox, Ltd. Boiler No. 734628-9 When made 1932
 Port belonging to

CRITICAL DONKEY BOILER.

at Lincoln By whom made Babcock & Wilcox Boiler No. 734628-9 When made 1932 Where fixed
 Manufacturers of Steel Parkgate Works, Ltd. Frodingham, S. Co. Ld. Cooper & Turner, Ltd.
 Heating Surface of Boiler 500 sq. ft. Is forced draught fitted Coal or Oil fired
 and Description of Boilers Two, blacksmith, water heat. Working pressure 100 lb.
 l by hydraulic pressure to 200 lb. Date of test 6-6-32 No. of Certificate 329-330
 of Firegrate in each Boiler none No. and Description of safety valves to each boiler One, 2 1/2" duplex marine type
 of each set of valves per boiler { per rule 5.5.0" as fitted 7.96" Pressure to which they are adjusted Are they fitted with easing gear yes
 whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers
 Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating
 Is the base of the boiler insulated Largest internal dia. of boiler 7'-8" Height 14'-4 1/2"
 plates: Material S. 4. steel Tensile strength 26/30 T. Thickness 1/2"
 e shell plates welded or flanged no Description of riveting: circ. seams { end S. H. Lap long. seams D. K. D. B. S. inter.
 f rivet holes in { circ. seams 7/8" Pitch of rivets { 2" Percentage of strength of circ. seams { plate 56.2 rivets 49.5 of Longitudinal joint { plate 72 rivets 110 combined long. seams 13/16" 2.91"
 ing pressure of shell by rules 111 lb. Thickness of butt straps { outer 7/16" inner 7/16"
 Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material S. 4. steel
 le strength 26/30 T. Thickness 3/4" Radius 6'-0" Working pressure by rules 103 lb.
 iption of Furnace: Plain, spherical, or dished crown dished Material S. 4. steel Tensile strength 26/30 T.
 ness 7/8" External diameter { top 4'-7 3/4" Length as per rule 6'-10 1/2" Working pressure by rules 102 lb. bottom
 of support stays circumferentially and vertically Are stays fitted with nuts or riveted over
 eter of stays over thread Radius of spherical or dished furnace crown 4'-0" Working pressure by rule 108 lb.
 ness of Ogee Ring 7/8" Diameter as per rule { D 7-3 5/16" Working pressure by rule 108 lb. a
 ustion Chamber: Material Tensile strength Thickness of top plate
 as if dished Working pressure by rule Thickness of back plate Diameter if circular
 h as per rule Pitch of stays Are stays fitted with nuts or riveted over
 eter of stays over thread Working pressure of back plate by rules
 Plates: Material { front S. 4. steel Tensile strength { 26/30 T. Thickness { 7/8" Mean pitch of stay tubes in nests back
 rprising shell, Dia. as per rule { front 4'-7 3/4" Pitch in outer vertical rows { C.P. 5.08 Dia. of tube holes FRONT { stay 3 1/4" BACK { stay plain plain back
 er of each alternate tube in outer vertical rows a stay tube no stays Working pressure by rules { front back
 ers to combustion chamber tops: Material Tensile strength
 h and thickness of girder at centre Length as per rule
 nce apart No. and pitch of stays in each Working pressure by rule

Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or _____ over threads. _____

No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____ or _____ over threads. _____ No. of threads per inch _____

Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Thimble Tubes: Material *M. S.* External diameter { plain _____ stay *3 1/4 5 1/4* Thickness { *203* *6 B.L. 9*

No. of threads per inch _____ Pitch of tubes *89 x 146 mm* Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate *19" x 15"* Section of compensating ring *4 1/2" x 1"* No. of rivets and diameter _____

of rivet holes *44* Outer row rivet pitch at ends *3-3"* Depth of flange if manhole flanged _____

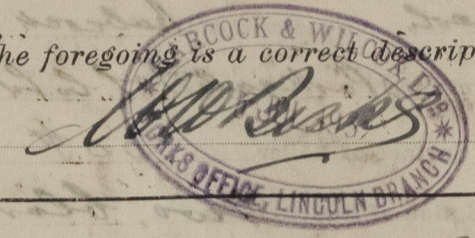
Uptake: External diameter *3'-1 3/8"* Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

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

The foregoing is a correct description. _____

Annual Survey Request



1931 Nov 17, 25-27 Dec 4, 10, 18, 30-31 1932 Jan 6, 15-22, 26 Feb 8, 11, 18, 23-25 Mar 11, 24 Apr 1, 15, 11, 14, 19, 23-29 May 3, 4, 6, 13, 18 Jun 19, 25-29, 30-31 Jul 1, 6, 8, 10, 15, 17, 30, 27, 29 Aug 1, 6, 15

Dates of Survey { During progress of work in shops - - - - - Is the approved plan of boiler forwarded herewith *21/10/31* (If not state date of approval.)

while building { During erection on board vessel - - - - - Total No. of visits *48*

Is this Boiler a duplicate of a previous case *yes* If so, state Vessel's name and Report No. *Card No. 249 Gms Rpt. 17944*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been built under special survey and in accordance with the Rules and approved plans as per the Secretary's letter of the 21st October, 1931. to Messrs The Clarkson Thimble Tube Boiler Works Ltd. The materials and workmanship are good.*

Survey Fee £ 8 : 8 : 9 When applied for, *1. 7. 32*

Travelling Expenses (if any) £ 5 19 0 When received, *28. 7. 19 32*

W. G. McKinlay
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned *TUE. 2 JAN 1934*
See Tri. 56. 10248