

27 NOV 1925

Lot. No. 6963

No. 88646

REPORT ON BOILERS.

Received at London Office 18 FEB 1925

Date of writing Report 18 FEB 1925 When handed in at Local Office 17 Feb 1925 Port of London & Gothenburg.
 No. in Survey held at Loughborough Date, First Survey 19 JANUARY Last Survey 16 Feb 1925
 No. in Survey 930 on the Donkey Boiler No. 4/4/ on the Twin Screw Vessel "ANNIE JOHNSON" (Number of Visits 3 + 2) Tons Gross 4896 Net 2852
 Built at Gothenburg By whom built A/B Götaverken Yard No. 7/392 When built 1925
 Engines made at Gothenburg By whom made A/B Götaverken Engine No. 1682 683 When made 1925
 Boilers made at By whom made Boiler No. When made
 Owners Rederiakt. Nordstjärnan Port belonging to Stockholm

VERTICAL DONKEY BOILER.

Made at Loughborough By whom made W.W. Cottman & Co. Ltd Boiler No. 4/4/ When made 1925 Where fixed ✓
 Manufacturers of Steel David Colville & Sons Ltd ✓
 Heating Surface of Boiler 14 m² = 150.7 sq ft Is forced draught fitted ✓ Coal or Oil fired Oil ✓
 and Description of Boilers One Vertical Cross tube Working pressure 85 lbs ✓
 Tested by hydraulic pressure to 70 lbs ✓ Date of test 16 February 1925 No. of Certificate 1384 ✓
 Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler Double 2" dia. handw. Spring type ✓
 Area of each set of valves per boiler { per rule as fitted Pressure to which they are adjusted 85 lbs ✓ Are they fitted with easing gear Yes ✓
 Is whether steam from main boilers can enter the donkey boiler ✓ Smallest distance between boiler or uptake and bunkers
 Woodwork Is oil fuel carried in the double bottom under boiler Yes ✓ Smallest distance between base of boiler and tank top plating
 About 3 feet Is the base of the boiler insulated ✓ Largest internal dia. of boiler 4'-9" ✓ Height 13'-0" ✓
 Shell plates: Material Steel ✓ Tensile strength 28/32 tons ✓ Thickness 3/8" ✓
 Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams { end 1 R Lap inter. " long. seams 8 R Lap ✓
 Number of rivet holes in { circ. seams 13 long. seams 76 Pitch of rivets { 2" 2 3/16" Percentage of strength of circ. seams { plate 59.3 rivets 57 of Longitudinal joint { plate 68.5 rivets 89 combined ✓
 Working pressure of shell by rules 116 lbs Thickness of butt straps { outer inner ✓
 Crown: Whether complete hemisphere, dished partial spherical, or flat Yes ✓ Material Steel ✓
 Shell strength 26/30 tons ✓ Thickness 9/16" ✓ Radius 4'-9" ✓ Working pressure by rules 116 lbs ✓
 Description of Furnace: Plain, spherical, or dished crown Yes ✓ Material Steel ✓ Tensile strength 26/30 tons ✓
 Thickness 1/2" ✓ External diameter { top 4'-0" bottom 4'-2" Length as per rule 2'-8" between Stays ✓ Working pressure by rules 109 lbs ✓
 Diameter of support stays circumferentially 8" ✓ and vertically 2'-8" ✓ Are stays fitted with nuts or riveted over riveted ✓
 Diameter of stays over thread 1 1/8" ✓ Radius of spherical or dished furnace crown 4'-0" x 9/16" Working pressure by rule 138 lbs ✓
 Thickness of Ogee Ring 2" ✓ Furnace Haunched Diameter as per rule { D ✓ Working pressure by rule ✓
 Combustion Chamber: Material ✓ Tensile strength Thickness of top plate
 Is it dished Working pressure by rule Thickness of back plate Diameter if circular
 Thickness as per rule Pitch of stays Are stays fitted with nuts or riveted over
 Diameter of stays over thread Working pressure of back plate by rules
 Plates: Material { front back ✓ Tensile strength Thickness Mean pitch of stay tubes in nests
 Raising shell, Dia. as per rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay plain BACK { stay plain
 Does it alternate tube in outer vertical rows a stay tube Working pressure by rules { front back ✓
 Stays to combustion chamber tops: Material ✓ Tensile strength
 Length and thickness of girder at centre Length as per rule
 Spacing apart No. and pitch of stays in each Working pressure by rule

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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 Steel Tensile strength 26/30 tons Diameter { at turned off part, _____ or over threads. 1 1/8" No. of threads per inch 1 1/2

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

Tubes: Material ☒ External diameter { plain _____ stay _____ Thickness { _____

No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Hand holes 4 1/2" x 3" ring 2 1/2" x 3" 6 x 1 3/16 rivets

Manhole Compensation: Size of opening in shell plate 6 x 12" Section of compensating ring 12" x 1/2" No. of rivets and diam _____

of rivet holes 42 @ 3/16" Outer row rivet pitch at ends 5" Depth of flange if manhole flanged ☒

Uptake: External diameter 14" Thickness of uptake plate 1/2"

Cross Tubes: No. Four External diameters { 10" Thickness of plates 3/8"

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

The foregoing is a correct description,

Malcolm R. Collman H.C. 100 Manufacturer
Malcolm R. Collman

Dates of Survey { During progress of work in shops - - 1925 JAN 19 FEB 2. 16
while building { During erection on board vessel - - 1925 Oct. 29, Nov. 14

Is the approved plan of boiler forwarded herewith No (If not state date of approval.) Report 4088
Total No. of visits 3 + 2

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

This boiler has been built under special survey in accordance with the rule requirements and the approved plan. The materials and workmanship are good and the boiler was sound and tight under hydraulic test. The boiler is intended for the above vessel being built to Class.

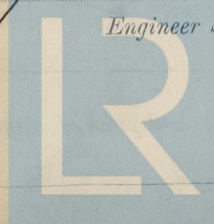
The boiler was subsequently examined under a steam pressure of 80 lbs. supplied to it by works' boiler & found tight.

This donkey boiler has been fitted on board this vessel under my inspection and to my satisfaction.

Survey Fee ... £ 4 4 When applied for, 18 FEB 1925
Travelling Expenses (if any) £ 3 : = : When received, 25th Feb 19 25

T. J. Hoddart. A. Snander
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 1 DEC 1925
Assigned _____



Lloyd's Register
Foundation