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Rpt. 5b.

# REPORT ON BOILERS.

No. 88484

23 DEC 1924

Date of writing Report 3rd Oct. 1925 23 DEC 1924 When handed in at Local Office 3rd October 1925 23 DEC 1924 Received at London Office 23 DEC 1924  
Port of London & Gothenburg  
No. in Survey held at Loughborough Date, First Survey 27th November 1924 Last Survey 22nd Dec 1924  
Reg. Book. 17935 on the Donkey Boiler No 4/43 on the Twin screw vessel "DELHI" (Number of Visits 4+3) Gross 4571 Tons Net 2606  
Built at Gothenburg By whom built A/B Lindholmen-Motala Yard No. 5923 When built 1925  
Engines made at Stockholm By whom made Aktieb. Atlas-Diesel Engine No. 50047 When made 1925  
Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓  
Owners Aktieb. Svenska Ostasiatiska Komp. Port belonging to Gothenburg

## VERTICAL DONKEY BOILER.

Made at Loughborough By whom made Halter W. Colman & Co. Ltd. Boiler No. 4/43 When made 1924 Where fixed ✓  
Manufacturers of Steel David Colville & Sons Ltd.  
Total Heating Surface of Boiler 7.35 m<sup>2</sup> = 100 Sqft Is forced draught fitted ✓ Coal or Oil fired Oil  
No. and Description of Boilers One Vertical Cross Tube Working pressure 8.5 lbs  
Tested by hydraulic pressure to 170 lbs Date of test 22nd December 1924 No. of Certificate 1278  
Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler Double 2 1/2" Marine Spring type  
Area of each set of valves per boiler per rule 6.98 sq Pressure to which they are adjusted 80 lbs Are they fitted with easing gear yes  
State whether steam from main boilers can enter the donkey boiler ✓ No main boilers Smallest distance between boiler or uptake and bunkers or woodwork ✓ Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating 11'-4"  
Net 3' Is the base of the boiler insulated ✓ Largest internal dia. of boiler 4'-0" Height 11'-4"  
Shell plates: Material Steel Tensile strength 28/32 tons Thickness 3"  
Are the shell plates welded or flanged No Description of riveting: circ. seams end SR Lap long SR Lap  
Dia. of rivet holes in circ. seams 3/4" long. seams 4" Pitch of rivets 2" Percentage of strength of circ. seams plate 62.5 of Longitudinal joint plate 71  
rivets 48.3 combined ✓  
Working pressure of shell by rules 143 lbs Thickness of butt straps outer inner  
Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material Steel  
Tensile strength 26/30 tons Thickness 2" Radius 4'-0" Working pressure by rules 123 lbs  
Description of Furnace: Plain, spherical, or dished crown Dished Material Steel Tensile strength 26/30 tons  
Thickness 7/16" External diameter top 3'-3" bottom 3'-7" Length as per rule 29" between stays Working pressure by rules 101 lbs  
Pitch of support stays circumferentially 7.3" and vertically 29" Are stays fitted with nuts or riveted over Riveted  
Diameter of stays over thread 1" 8 threads Radius of spherical or dished furnace crown 3'-3" x 1/2" Working pressure by rule 150 lbs  
Thickness of Ogee Ring 7/16" furnace flanged Diameter as per rule ✓ Working pressure by rule ✓  
Combustion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate ✓  
Radius if dished ✓ Working pressure by rule ✓ Thickness of back plate ✓ Diameter if circular ✓  
Length 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 ✓  
Tube Plates: Material front back Tensile strength ✓ Thickness ✓ Mean pitch of stay tubes in nests ✓  
If comprising shell, Dia. as per rule front back Pitch in outer vertical rows ✓ Dia. of tube holes FRONT stay plain BACK stay plain  
Is each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules front back  
Girders to combustion chamber tops: Material ✓ Tensile strength ✓  
Depth and thickness of girder at centre ✓ Length as per rule ✓  
Distance 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 ton Diameter { at turned off part, \_\_\_\_\_  
 or \_\_\_\_\_  
 over threads \_\_\_\_\_ No. of threads per inch 8 ✓  
 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 down 4 1/2 x 3 Compensation rings 2 3/8 wide x 8 6 x 4 rivets ✓  
**Manhole Compensation:** Size of opening in shell plate 16 x 12 ✓ Section of compensating ring 12 x 3 ✓ No. of rivets and diameter \_\_\_\_\_  
 of rivet holes 4 2 a 3 4 ✓ Outer row rivet pitch at ends 3 ✓ Depth of flange if manhole flanged \_\_\_\_\_  
**Uptake:** External diameter 11 ✓ Thickness of uptake plate 1/2 ✓  
**Cross Tubes:** No. 4 ✓ External diameters { 9 ✓ 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,

Walter R. Collman W. R. Collman  
 Manufacturer.

Dates of Survey { During progress of work in shops - 1924 Nov 27 Dec 5-15-22  
 while building { During erection on board vessel - 1925: June 10, Aug. 28, Oct. 1.  
 Is the approved plan of boiler forwarded herewith ✓ (If not state date of approval.) 4° 88441 also shown in plate.  
 Total No. of visits 4 (in shops) 3 (on board)

**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 found sound and tight under hydraulic test.  
 The boiler is being forwarded to Jøttenburg & is intended for a classed vessel.

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

Survey Fee ... £ 44 : 4 :  
 Travelling Expenses (if any) £ 3 : 10 :  
 When applied for, 28 DEC 1924  
 When received, 23.2.25

W. J. Stoddart  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned See Got. 28.6.22

TUES. 13 OCT 1925