

REPORT ON BOILERS.

No. 9951.

Received at London Office 28 OCT 1935

Date of writing Report 18th October 1935 When handed in at Local Office

Port of Copenhagen

No. in Survey held at Aalborg.

Date, First Survey 27th July 1935 Last Survey 9th October 1935

No. of the Twin Screw Steamer "TASMANIA"

(Number of Visits 12.) Gross 4460.30
Net 2683.98

Built at Aalborg

By whom built Aalborg Skibsverft

Yard No. 67

When built 1935

Engines made at Copenhagen

By whom made A. B. Burmeister & Wain

2389

Engine No. 2390

When made 1935

Boilers made at

By whom made

Boiler No.

When made

Owners A/S O/S "Orient"

Port belonging to Copenhagen.

VERTICAL DONKEY BOILER.

Made at Aalborg By whom made Aalborg Skibsverft Boiler No. 21 When made 1935 Where fixed in the motor room

Manufacturers of Steel Plate: Deutsche Rohrenwerke A.G. Werts Tysse, Mittenheim Ruhr. Reich. Leunig Bros. Copenhagen.

Total Heating Surface of Boiler 100 sq. feet Is forced draught fitted yes Coal or Oil fired oil fired

No. and Description of Boilers one of vertical cross tube Working pressure 100 lbs/sq. in.

Tested by hydraulic pressure to 200 lbs/sq. in. Date of test 4.9.35 No. of Certificate 574.

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 of direct spring loaded, 1 1/2" diam.

Area of each set of valves per boiler per rule 3.53 sq. in. as fitted 3.53 sq. in. Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler no main boiler Smallest distance between boiler or uptake and bunkers

Woodwork no woodwork Is oil-fuel carried in the double bottom under boiler yes Smallest distance between base of boiler and tank top plating

1550 mm Is the base of the boiler insulated yes Largest internal dia. of boiler 1400 mm Height 3425 mm

Shell plates: Material S. M. Steel Tensile strength 43.0 to 43.7 kg/mm² Thickness 11 mm

Are the shell plates welded or flanged no Description of riveting: circ. seams end single riv. inter. single riv. long. seams double riveted

Dia. of rivet holes in circ. seams 20 mm Pitch of rivets 50 mm Percentage of strength of circ. seams plate 60 rivets 47 of Longitudinal joint plate 67.6 rivets 76.5 combined

Working pressure of shell by rules 139 lbs/sq. in. Thickness of butt straps outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material S. M. Steel

Tensile strength 45.4 kg/mm² Thickness 13 mm Radius 1300 mm Working pressure by rules 123 lbs/sq. in.Description of Furnace: Plain, spherical, or dished crown dished Material S. M. Steel Tensile strength 45.6 kg/mm²

Thickness 14 mm External diameter top 1034 bottom 1200 Length as per rule 1415 mm Working pressure by rules 114 lbs/sq. in.

No. of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown 1317 mm Working pressure by rule 109 lbs/sq. in.

Thickness of Ogee Ring 14 mm Diameter as per rule 1378 mm Working pressure by rule 102 lbs/sq. in.

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

Comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes FRONT BACK

Each 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

Distance 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 ☒
Tubes: Material ☒ External diameter ☒ { plain stay } Thickness ☒
 No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒
Manhole Compensation: Size of opening in shell plate 300 x 400 mm Section of compensating ring flat (6 x 53) mm x 2 No. of rivets and diam
 of rivet holes 36 of 20 mm Outer row rivet pitch at ends 90 mm Depth of flange if manhole flanged ☒
Uptake: External diameter 305 mm Thickness of uptake plate 13 mm
Cross Tubes: No. 2 External diameters 230 mm Thickness of plates 13 mm

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

The foregoing is a correct description,

AKTIESELSKABET
NAKSKOV SKIBSVÆRFT

Manufactured by

Dates of Survey ☒ During progress of work in shops - 27/7-15/8-23/8-27/8-4/9-1935 Is the approved plan of boiler forwarded herewith yes
 while building ☒ During erection on board vessel - 13/9-20/9-24/9-2/10-3/10-4/10-9/10-1935 (If not state date of approval.)
 Total No. of visits 12

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

This donkey boiler has been built under special survey in accordance with the Rules, the approved plan & the requirements contained in the Secretary's letter E dated 15th March.

The material used in construction has been tested as required by the Rules as per certificates of test now produced.

The workmanship is of good description throughout.

A "Golia" duplex feed pump, 75 x 40 x 75 mm and a steam injector have been fitted to the donkey boiler.

Recommend the vessel to have notation in the Register Book of DB 100 us.

Survey Fee £ 150.00 When applied for, 25.10.1935
 Travelling Expenses (if any) £ When received, 16.12.1935

J. Langkilde Jensen.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 NOV 1935
 Assigned See J.E. Machy. Report.

Lloyd's Register Foundation