

# REPORT ON BOILERS.

No. 14697

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Date of writing Report 19... When handed in at Local Office 19... Port of Copenhagen  
 No. in Survey held at Copenhagen Date, First Survey 25/1/54 Last Survey 20<sup>th</sup> May 1954  
 Reg. Book. M/V "INGER SKOU" (Number of Visits 12) Tons Gross 4,430 Net 2,478  
 Built at Copenhagen By whom built A/S Burmeister & Wain Yard No. 715 When built 1954  
 Engines made at " By whom made " Engine No. 5233 When made 1954  
 Boilers made at " By whom made " Boiler No. 2160 When made 1954  
 Owners Ove Skou Port belonging to Copenhagen

## EXHAUST GAS DONKEY VERTICAL BOILER.

Made at Copenhagen By whom made A/S Burmeister & Wain Boiler No. 2160 When made 1954 Where fixed Below base of funnel  
 Plates: Ruhrstahl A.G., Henrichshütte, Hüttingen-Ruhr; Tubes: Tubes Ltd. Kirby Muxloe, Leeds; & The Weldless Steel  
 Manufacturers of Steel Tube Co. Ltd, Wednesfield; Rivets: Hinze Bros. Copenhagen.  
 Total Heating Surface of each Boiler 100 m<sup>2</sup> Is forced draught fitted ✓ Coal or Oil fired Exhaust gas fired from main eng.  
 No. and Description of Boilers 1-off vertical multitubular donkey boiler Working Pressure 7 kg/cm<sup>2</sup>  
 Tested by hydraulic pressure to 14 kg/cm<sup>2</sup> Date of test 19<sup>th</sup> March 1954 No. of Certificate 844  
 Area of fire grate in each Boiler ✓ No. and description of safety valves to each boiler 1-off 2x50mm dia Spring loaded  
 Area of each set of valves per boiler { per Rule ✓ as fitted As approved. 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 boilers Smallest distance between boiler or uptake and bunkers or woodwork No woodwork 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 Yes Largest internal dia. of boiler 1440mm Height 3720mm  
 Shell plates: Material S.M. Steel Tensile strength 47.9 kg/mm<sup>2</sup> Thickness 10mm  
 Are shell plates welded or flanged No If fusion welded, state name of welding firm ✓  
 Have all the requirements of the Rules for Class I vessels been complied with ✓ Description of riveting: circ. seams { end Lap Single ✓ inter ✓  
 long. seams Lap double Dia. of rivet holes in { circ. seams 19mm Pitch of rivets { 46mm Thickness of butt straps { outer ✓ inner ✓  
 long. seams 19mm Pitch of rivets { 60mm Thickness of butt straps { outer ✓ inner ✓  
 Shell Crown: Whether complete hemisphere, dished partial spherical, or flat spherical Material S.M. Steel Tensile strength 46.5 kg/mm<sup>2</sup> Thickness 12mm  
 Radius 1270mm Description of Furnace: Plain, spherical, or dished crown ✓ Material ✓  
 Tensile strength ✓ Thickness ✓ External diameter { top ✓ bottom ✓ Length as per Rule ✓  
 Pitch 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 ✓  
 Thickness of Ogee Ring ✓ Diameter as per Rule { D ✓ d ✓  
 Combustion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate ✓  
 Radius if dished ✓ 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 ✓  
 Tube Plates: Material { Top S.M. Steel Tensile strength { 44.8 kg/mm<sup>2</sup> Thickness { 1.8mm Mean pitch of stay tubes in nests As per approved plan  
 Bottom S.M. Steel Tensile strength { 44.8 kg/mm<sup>2</sup> Thickness { 1.8mm Mean pitch of stay tubes in nests As per approved plan  
 If comprising shell, dia. as per Rule { front ✓ back ✓ Pitch in outer vertical rows { ✓ Dia. of tube holes { Top 39.1 Bottom 38.1  
 Is each alternate tube in outer vertical rows a stay tube As per approved plan plain 39.1 plain 38.1  
 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 ✓

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Crown Stays: Material S.M. Steel ✓ Tensile strength ✓ Diameter { at body of stay, ✓ or over threads ✓

No. of threads per inch ✓ Screw Stays: Material ✓ Tensile strength ✓

Diameter { at turned off part, ✓ or over threads ✓ No. of threads per inch ✓ Are the stays drilled at the outer ends ✓

Tubes: Material S.M. Steel ✓ External diameter { plain 38.1 mm ✓ stay 38.1 mm ✓ Thickness { 2.5 mm ✓ 6.0 mm ✓

No. of threads per inch 11 ✓ Pitch of tubes 60 mm ✓

Manhole Compensation: Size of opening in shell plate 300 x 400 mm ✓ Section of compensating ring t = 16 mm ✓ No. of rivets and diameter of rivet holes Welded in ✓ Outer row rivet pitch at ends ✓ Depth of flange of manhole flanged 80 mm ✓

Uptake: External diameter ✓ 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 Yes ✓

The foregoing is a correct description,

AKTIESELSKABET  
BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 25/1, 30/1, 4/2, 11/2, 19/2, 8/3, 19/3-54 ✓ Is the approved plan of boiler forwarded herewith (If not state date of approval.) Yes

{ During erection on board vessel - - 22/4, 30/4, 4/5, 19/5, 20/5 Total No. of visits 12

Is this Boiler a duplicate of a previous case No ✓ If so, state Vessel's name and Report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built and installed on board under Special Survey, and in accordance with the Rules, the approved plan, and the Secretary's letters.

The material used has been examined and tested as required by the Rules and the workmanship is good.

On completion of the installation the safety valves were adjusted under steam to 100 lbs/sq. in., the accumulation tested and found in order.

Note:- This exhaust gas boiler is arranged for independent operation as a boiler.

Survey Fee ... Kr. 240<sup>00</sup> ✓ When applied for 24.6 19 54

Travelling Expenses (if any) £ : : When received 19

Date FRIDAY 30 JUL 1954

Committee's Minute See Rpt 46.

Engineer Surveyor to Lloyd's Register of Shipping.



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