

## REPORT ON BOILERS.

No. 14697

Received at London Office 25 JUN 1954

Date of writing Report 19... When handed in at Local Office 19... Port of Copenhagen

No. in Survey held at Copenhagen Date, First Survey 16<sup>th</sup> Dec 1953 Last Survey 20<sup>th</sup> May 1954

Reg. Book. M/V "INGER SKOU" (Number of Visits 13) Tons (Gross 44.30 Net 24.78)

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. 2161 When made 1954

Owners Ove Skou Port belonging to Copenhagen

DONKEY  
VERTICAL BOILER.

Made at Copenhagen By whom made A/S Burmeister & Wain Boiler No. 2161 When made 1954 Engine room, starboard side  
 Plates:- Colvilles Ltd. Glasgow; Tubes:- Uddeholms A/B, Storfoosverken, Storfoos;  
 Manufacturers of Steel Rivets:- Henze Bros. Copenhagen Where fixed at floor level

Total Heating Surface of each Boiler 24 m<sup>2</sup> Is forced draught fitted No Coal or Oil fired Oil fired

No. and Description of Boilers 1-off vertical boiler Working Pressure 7 kg/cm<sup>2</sup>

Tested by hydraulic pressure to 14 kg/cm<sup>2</sup> Date of test 30<sup>th</sup> January 1954 No. of Certificate 840

Area of fire grate in each Boiler ✓ No. and description of safety valves to each boiler 1-off 2" dia, spring loaded

Area of each set of valves per boiler { per Rule 3.5 ins<sup>2</sup> as fitted 6.28 ins<sup>2</sup> 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 1'-6"

2'-0" Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating 2'-0"

Is the base of the boiler insulated Yes Largest internal dia. of boiler 1365 mm Height 3310 mm

Shell plates: Material S.M. Steel Tensile strength 45.5 kg/mm<sup>2</sup> Thickness 10 mm

Are the 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 Lap single

long. seams Lap double Dia. of rivet holes in { circ. seams 19 mm Pitch of rivets { 46 mm Thickness of butt straps { outer ✓ inner ✓

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat spherical Material S.M. Steel Tensile strength 45.5 kg/mm<sup>2</sup> Thickness 12 mm

Radius 1270 mm Description of Furnace: Plain, spherical, or dished crown Dished crown Material S.M. Steel

Tensile strength 45.5 kg/mm<sup>2</sup> Crown - 12 mm Thickness Shell - 13.5 mm External diameter { top 1042 mm Length as per Rule 551 mm bottom 1207 mm

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 1000 mm

Thickness of Ogee Ring 13.5 mm Diameter as per Rule { D 1365 mm d 1207 mm

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 43.5 kg/cm<sup>2</sup> Thickness { 19 mm Mean pitch of stay tubes in nests plan Bottom S.M. Steel Tensile strength 43.5 kg/cm<sup>2</sup> Thickness { 19 mm

If comprising shell, dia. as per Rule { front ✓ Pitch in outer vertical rows { ✓ Dia. of tube holes { Top 50.5 mm Bottom 44.5 mm plain 45.5 mm plain 44.5 mm 77.2 mm 76.2 mm

Is each alternate tube in outer vertical rows a stay tube As per approved plan

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 ☒ Tensile strength ☒ Diameter { at body of stay ☒  
No. of threads per inch ☒ Screw Stays: Material ☒ Tensile strength ☒  
Diameter { at turned off part ☒ No. of threads per inch ☒ Are the stays drilled at the outer ends ☒  
Tubes: Material S. M. Steel External diameter { plain 44.5 & 76.2 mm. Thickness { 3.0 & 3.5 mm.  
No. of threads per inch 11 Pitch of tubes 25.4 mm. stay 44.5 mm. Thickness { 6.0 mm.  
Manhole Compensation: Size of opening in shell plate 300 x 400 mm. Section of compensating ring t = 15 mm. No. of rivets and diameter  
of rivet holes Welded in Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged ring 75 mm.  
Uptake: External diameter 355 mm. Thickness of uptake plate 10 mm.  
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.  
*[Signature]*

Dates of Survey { During progress of work in shops - - 16/12-53, 4/1, 11/1, 18/1, 25/1, 30/1, 5/2 Is the approved plan of boiler forwarded herewith Yes  
while building { During erection on board vessel - - 17/2, 17/3, 22/4, 4/5, 7/5, 19/5, 20/5 (If not state date of approval.)  
Total No. of visits 13

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.) The boiler has been built and installed on board under Special Survey, 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 pressure to 100 lbs/sq. in, the accumulation tested and found in order.

Survey Fee Kr. 240.00 When applied for 24.6 19 54  
Travelling Expenses (if any) £  When received 19

Date FRIDAY 30 JUL 1954 Engineer Surveyor to Lloyd's Register of Shipping. *[Signature]*  
Committee's Minute See Rpt. 76.