

REPORT ON BOILERS.

No. 8167.

Received at London Office

3 FEB 1930

Writing Report 23/1 1930 When handed in at Local Office 19 Port of Copenhagen.
 Survey held at Copenhagen & Odense Date, First Survey 12/6 29 Last Survey 18/1 1930
 on the Steamer S. S. Laurits Swenson (Number of Visits 15) Gross 5724.72 Tons Net 3556.10
 Odense By whom built Odense Maskfabrikk (ved A. P. Møller) Yard No. 35 When built 1929
 made at Copenhagen By whom made 9/5 Børneste & Wain. Engine No. 1623 When made 1929
 made at ✓ By whom made ✓ Boiler No. ✓ When made ✓
 9/5 Gauger Røp (Fr. Olsen & Co.) Port belonging to Oslo.

TICAL DONKEY BOILER.

at Copenhagen By whom made 9/5 Børneste & Wain Boiler No. 1830 When made 1929 Where fixed in the motor room
 makers of Steel Messrs. Henschel & Sohn, G. M. B. H., (KÖNSTUBES & UPTAKE: Messrs. Galloways Ltd. Manchester)
 Heating Surface of Boiler 100 sq. ft. Is forced draught fitted No. Coal or Oil fired oil 100 lb.
 Description of Boilers 1 off, vertical, cross-tube. Working pressure 7 kg/cm²
 by hydraulic pressure to 14 kg/cm² Date of test 7th August 1929 No. of Certificate 514
 of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 2 off 4 1/2 in dia. direct spring loaded.
 of each set of valves per boiler { per rule 22.7 cm² C.M.E. Pressure to which they are adjusted 100 lbs./sq. in. Are they fitted with easing gear yes.
 as fitted 27.7 cm² Whether steam from main boilers can enter the donkey boiler no main boiler. Smallest distance between boiler or uptake and bunkers
 dwork ✓ Is oil fuel carried in the double bottom under boiler yes. Smallest distance between base of boiler and tank top plating
 38" Is the base of the boiler insulated No. Largest internal dia. of boiler 1370 mm Height 3200 mm.
 plates: Material S.M. boiler steel. Tensile strength 46.4 kg/mm² Thickness 10 mm.
 e shell plates welded or flanged No. Description of riveting: circ. seams { end lap single rivet. long seams lap, 266 rivet.
 f rivet holes in { circ. seams 19 mm Pitch of rivets 45 mm Percentage of strength of circ. seams { plate 57.8 of Longitudinal joint { plate 69.3
 { long seams 19 mm { 62 mm { rivets 49.1 { rivets 71.
 ing pressure of shell by rules 9.73 kg/cm² Thickness of butt straps { outer ✓ inner ✓
 Crown: Whether complete hemisphere, dished partial spherical, or flat flat. Material S.M. boiler steel.
 e strength 44.4 kg/mm² Thickness 22 mm Radius ✓ Working pressure by rules 10 kg/cm²
 iption of Furnace: Plain, spherical, or dished crown flat. Material S.M. boiler steel. Tensile strength 44.7 kg/mm²
 ness 14 mm Crown External diameter { top 1029 mm Length as per rule 1640 mm Working pressure by rules SHELL: 6.93 - -
 { bottom 1229 mm { crown: 8.05 kg/cm² (cross-tubes not considered)
 of support stays circumferentially and vertically Are stays fitted with nuts or riveted over
 eter of stays over thread Radius of spherical or dished furnace crown Working pressure by rule
 ness of Ogee Ring Diameter as per rule { D Working pressure by rule
 ustion Chamber: Material Tensile strength Thickness of top plate
 is if dished Working pressure by rule Thickness of back plate Diameter if circular
 h as per rule Pitch of stays Are stays fitted with nuts or riveted over
 eter of stays over thread Working pressure of back plate by rules.
 Plates: Material { front Tensile strength { Thickness { Mean pitch of stay tubes in nests
 { back { Pitch in outer vertical rows { Dia. of tube holes FRONT { stay BACK { stay
 { plain { plain
 ch alternate tube in outer vertical rows a stay tube Working pressure by rules { front { back
 ers to combustion chamber tops: Material Tensile strength
 h and thickness of girder at centre Length as per rule
 nce 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 _____ 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 305 x 405 mm Section of compensating ring flanged No. of rivets and diameter _____

of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged 75 mm

Uptake: External diameter 364 mm Thickness of uptake plate 12 mm

Cross Tubes: No. 3 External diameters { 230 mm Thickness of plates 10 mm

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,
AKTIESELSKABET
BURMEISTER & WAINSKIN- OG SKIBBYGGERI
Manufacturer.
Ch. Mønstgaard

Dates of Survey { During progress of work in shops - 2/6, 27/6, 2/7, 10/7, 19/7, 29/7, 7/8, 12/8, 29 Is the approved plan of boiler forwarded herewith Yes
(If not state date of approval.)

while building { During erection on board vessel - 15/10, 24/10, 2/11, 12/12, 27, 13/1, 14/1, 18/1, 30 Total No. of visits 15

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

This donkey boiler has been built under special survey and in accordance with the Society's Rules, the approved plan and the requirements contained in the Surveyor's letter & dated 4/4 29.

The material used for the construction of the boiler has been tested and examined as required by the Rules and the workmanship is of good description throughout.

The donkey boiler has been fitted on board the vessel under our supervision and to our satisfaction, and a steam driven pump, 90 x 60 x 90 mm duplex, and a feed injector have been fitted to feed the boiler.

Recommend the vessel to have notation of D.B. 100 lbs. in the Register Book.

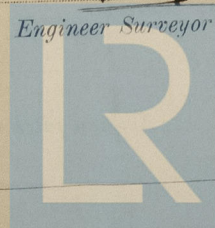
Survey Fee ... 74. 76. 44 : When applied for. 30. 1. 19
Travelling Expenses (if any) £ : : When received, 17. 3. 19

Chubb. M. Lauren
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned

FRI. 7 FEB 1930

See other Cms J.E. Rpt



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